

University News

MONDAY, SEPTEMBER 21, 1987

Rs. 1.50



*Sri Krishnadevaraya University, Anantapur - our hosts to 213th meeting of the Standing Committee.
Picture shows the Library and Administrative Block of this upcoming University.*



इन्दिरा गांधी राष्ट्रीय मुक्त विश्वविद्यालय
INDIRA GANDHI NATIONAL
OPEN UNIVERSITY

YMCA Cultural Centre Jai Singh Road New Delhi-110 001

**Applications are invited from Indian Citizens for filling up the following posts in
the Indira Gandhi National Open University:-**

(1) PROFESSORS: Economics, Sociology, Political Science, Management Studies, Public Administration, English and Mathematics

Scale of Pay: Rs 1600-60-1800-100-2000-125/2-2500 (to be revised) plus usual allowances as admissible under the University Rules

Qualifications: An eminent scholar with published work of high quality actively engaged in research. About ten years experience of teaching, research and/or extension. Experience of guiding research at doctoral level

OR

An outstanding Scholar with established reputation who has made significant contribution to knowledge.

Explanation: FPM (Indian Institutes of Management Doctoral Programme) will be treated as equivalent to a doctoral degree of a University

(2) READERS: Economics, Political Science, Public Administration, History, English, Hindi, Physics, Philosophy, Computer Science, Management Studies, Library and Information Sciences

Scale of Pay: Rs 1200-50-1300-60-1900 (to be revised) plus usual allowances as admissible under the University Rules

Qualifications:

(a) For disciplines other than Computer Science & Management Studies

Good academic record with a doctoral degree or equivalent published work. Evidence of being actively engaged in (i) research (ii) innovation in teaching methods or (iii) production of teaching materials

About five years experience of teaching, research and/or extension provided that at least three years are as Lecturer or in an equivalent position. This condition may be relaxed in the case of candidates with outstanding record of teaching/research

(b) Computer Science.

Reader in Computer Science

Good academic record with a doctoral degree or equivalent published work. Evidence of being actively engaged in (a) research and (b) innovation in teaching methods, or (c) production of teaching materials

About 5 years experience of teaching and/or research or work experience in computer applications provided that at least 3 years are as a Lecturer or in any equivalent position associated with computersystems

OR

(i) Master's Degree in Computer Science or Master's Degree in any discipline with a Diploma in Computer Science or a Bachelor of Engineering in Computer Science/Electronics and Tele-Communications

(ii) Minimum 5 years experience in Computer System Development, Computer Programming and in conducting training programmes in Computer Science/Data Communications, Computer Systems models and performance evaluation/Software Engineering/Artificial Intelligence/Knowledge based Systems/Pattern Recognition/Digital Image Process/Micro Computer Architecture application computer graphics/excellent oral and written communication ability

(c) Management Studies:

Reader in Management Studies

Good academic record with a doctoral degree or equivalent published work. Evidence of being engaged in (i) research (ii) innovation in teaching methods or (iii) production of teaching materials

About five years experience of teaching, research and/or extension provided that at least three years are as Lecturer or in an equivalent position. This condition may be relaxed in the case of candidates with outstanding record of teaching/research. Preference will be given to candidates specialising in

behavioural sciences or operations management or Marketing management

Explanation

For determining "good academic record" the following criteria shall be adopted

- (i) A candidate holding Ph.D. degree should possess atleast a second class Master's degree, or
- (ii) A candidate without a Ph.D. degree should possess a high second class Master's degree and second class in the Bachelor's degree, or
- (iii) A candidate not possessing Ph.D. degree but possessing second class Master's degree should have obtained first class in the Bachelor's degree

The following general conditions are applicable to all posts at 1 and 2 above

- (a) Additional Qualifications: Experience and proven ability in imparting education through communication media and innovations in distance teaching methods and materials
- (b) Job requirements: Academic staff of this University will have the following responsibilities
 - 1 Curriculum and course development
 - 2 Preparation of self-instructional print material
 - 3 Preparation of and participation in the production of audio-video materials
 - 4 Participation in contact programmes, workshops, week-end programmes, summer institutes, face-to-face teaching etc
 - 5 Undertaking of research individual, institutional sponsored etc

In addition to pay the posts carry all allowances as per UGC norms. Higher start in the prescribed scale may be given in deserving cases on the recommendation of the Selection Committee. In a few cases the University would be able to provide accommodation

Provident Fund/Pension Gratuity Leave Travel Concession Medical reimbursement and Leave will be admissible as may be approved by the Board of Management (It is anticipated that such benefits would be more or less comparable to other Central Universities)

The prescribed application forms can be had from the Registrar Indira Gandhi National Open University, YMCA Cultural Centre, Jai Singh Road, New Delhi-110 001, on a written request by post and accompanied by a self-addressed envelope (size 13 cms x 28 cms) bearing postage stamps of Re 1.00. Completed application forms along with attested copies of degrees, experience etc should reach the Registrar at the above address on or before 9th October 1987. The originals of the above Degrees/certificates should be produced at the time of interview

Candidates called for interview from outside Delhi will be paid single second class railway fare to and fro by the shortest route from their place of residence/work. Canvassing in any form by or on behalf of a candidate will be a disqualification

Applications received after the last-date or without complete information will not be entertained

NOTE 1 It will be open to the University to consider the names of suitable candidates who may not have applied. Relaxation of any of the qualifications may be made in exceptional cases in respect of all the posts on the recommendation of the Selection Committee

2 The University reserves the right not to fill up any of the vacancies advertised if the circumstances so warrant

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Editor:
SUTINDER SINGH

Sri Krishnadevaraya University

M. Abel*

Historical Background

Named after the illustrious patron of letters and learning of the great Vijayanagara empire under whose historic reign came a large part of the Rayalaseema region of Andhra Pradesh, Sri Krishnadevaraya University has come into existence fulfilling a long cherished dream of the people of Rayalaseema. The new University, a natural outgrowth of the erstwhile Sri Venkateswara University Autonomous Postgraduate Centre, Anantapur, has 19 years of academic history. The former Post-graduate Centre was started in 1968 with the Departments of Telugu, English, Mathematics, Physics and Chemistry. Later in 1970 the Departments of Law, Economics and Commerce were added. In 1976 when the Postgraduate Centre became autonomous, the Departments of Rural Development and Bio-Science were started. Thus the former Post-graduate Centre which was started in 1968, had initiated and completed a number of development programmes by 28th July, 1981 when it was upgraded into a unitary, residential University with Prof. M. Abel as its first Vice-Chancellor.

The new University has an extensive campus of 500 acres surrounded by villages, not very far from Anantapur town. The University when it was born in 1981 had an infrastructure of buildings, library, laboratory equipment and playing grounds just adequate to meet the demands of a Postgraduate Centre. But a lot more was needed in order to make the institution a University in the true sense of the term. In order to meet the needs of the fast growing infant University, several additions were made to the existing infrastructure during the Sixth Plan period. 2 Hostels, 1 Science Block, 1 Health Centre, 1 Guest House, 1 Non-Residential Students Centre and 1 Gymnasium were constructed with the assistance extended by the U.G.C. and the State Government to the tune of about Rupees 1 crore.

Academic Departments

When the new University was started in 1981 there were only 10 departments, namely, Telugu, English, Economics, Bio-Sciences and Law. Therefore the immediate task which confronted the new University was first to consolidate the existing courses and then to introduce new courses which are modern and upto-date in their scope and methodology as well as relevant to the problems and aspirations of the people of Rayalaseema.

In response to the increasing demand of the public for higher education and taking into account the needs of the region, the University started in 1981 five new Postgraduate courses, namely, M.Sc. Degree Course in Polymer Science, M.Sc. in Statistics, M.A. in Sociology, M.A. in History and Master of Business Administration. All these courses have been introduced in order not only to enable students to acquire theoretical knowledge of the subject concerned but also to equip them with skills and techniques to apply theoretical knowledge to solve the socio-economic problems of the region within the national perspective.

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The next significant development of the University was witnessed in 1984 when more new Post-graduate courses in Biochemistry, Microbiology, Political Science and Public Administration, Geography and M.L. were started in accordance with the recommendations of the U.G.C. Visiting Team and with the generous financial assistance extended by the U.G.C. We have also introduced the Bachelor Degree Course in Library and Information Sciences. Further, in addition to these Postgraduate and Under-graduate courses, the University has been offering diploma courses in Labour Law, Taxation and Instrumentation and Certificate Course in Library Science.

As a result of these developments the number of departments in the University College has increased from 10 in 1981 to 22.

Faculty

The University has been lucky, to start with, in getting experienced faculty members who had put in several years of service in the Sri Venkateswara University. When the University came into existence in 1981 there were only 86 faculty members. The strength of the faculty has now increased to 160 on account of strengthening the staff of the existing departments and the opening of new Postgraduate courses. The teacher-student ratio works out to a desirable 1 : 8. The members of the faculty are well qualified and competent, some of whom enjoy national as well as international recognition as scholars in their respective fields. Each department has produced a good number of M.Phil. and Ph.D. degree scholars in addition to the productive research work of individual faculty members. Several departments have executed and are currently engaged in research projects—as many as twenty—provided by CSIR, UGC, ICSSR and the Ministry of Science and Technology. The total value of the grants received for these projects is in the range of Rupees 10 lakhs.

Research

The number of research scholars registered for M.Phil. and Ph.D. Degrees has been increasing. Their number which was 69 for M.Phil. and 15 for Ph.D. in 1981 has increased to 84 for M.Phil. and 33 for Ph.D. During the period under review i.e., from 1981 to 1984, 20 research scholars have qualified themselves for the award of the Ph.D. Degree and 57 for the award of the M.Phil. Degree.

The Library is the heart of any academic institution. As such we have been giving special attention to the building up of our Library. With the assistance of the State Government as well as grants received from U.G.C., we have been able to add

very significantly to the number of volumes in our library. With 60,000 books and 6,000 back numbers and a large number of current journals, the Library is serving the academic community in a very satisfactory manner.

The enrolment of students in various Postgraduate degree courses also has been steadily increasing. When the University came into existence in 1981, the total number of Postgraduate students was 1129 which has now increased to 1300.

Extension & Co-Curricular Activities

Extension work has always been regarded as a valuable component of academic activity in the Sri Krishnadevaraya University. As early as in 1971 the social concern and commitment of the faculty here were reflected in the starting of night schools for functional literacy in the neighbouring villages. Since then even when institutional support was not adequately forthcoming, several programmes for the development of the village community were planned and executed. The departments have each proposed a specialised type of extension work suited to their discipline. The National Service Scheme Unit in the University has been very active and has executed several laudable projects in and around the campus and in the neighbouring locality as well as in far away places. It should be mentioned to the credit of our NSS Unit that the work they did during natural calamities such as cyclones in such places as Diviseema, Janagam, Jakkalavari Kandriga in Nellore district were highly appreciated by the beneficiaries as well as the general public. With this experience in extension education, we are now planning to launch into the area of adult education in a big way by opening 60 adult education centres with the assistance given by the U.G.C. We hope that these extension programmes of the University will forge links between our academic community and the neighbourhood community which will help our students to cultivate social awareness and also develop a sense of social responsibility.

Our students have participated in a number of inter-university and inter-state tournaments. Being a small residential University, it is very difficult to involve our students in any significant manner in such inter-university and inter-state tournaments. In spite of such limitations our University teams have been given opportunities to play in tournaments conducted at different levels especially in games, such as Volleyball, Badminton and Cricket. We also conducted the All India Ball Badminton Tournament on our Campus at the beginning of this year which was appreciated by all the participating teams.

The University also maintains a Health Centre which takes care of common ailments of our students and members of staff. As we are far from the town the need for adequate medical and para-medical staff is acutely felt especially for emergencies in the nights. So we have established a Health Centre with the generous assistance of the U.G.C and the Government of Andhra Pradesh.

Prospects for the Future

This encouraging profile of the University does not mean that it has no "promises to keep". In fact, it has to go miles and miles before it can meet the rising expectations of the people of the backward region of Rayalaseema. Further, in order to be at par with other older universities in the State and in order to forge a unique identity of its own, tremendous effort is needed in terms of academic planning, fund raising and introduction of new courses. In order to fulfil the high expectations of the people, the new University has first of all to give a central place to studies and research relating to rural and agrarian problems of Rayalaseema in its academic programmes. This need is underlined by the fact that the University is situated in a rural area. We do not live in ivory towers here and we are only too conscious of the fact that we are enduring severe drought conditions for the third year in succession. Everyone refers to an integrated approach to the problems of the region. But few seem to practise integral approach involving holistic understanding of the region in its entirety. Geologists, Economists, Natural Scientists, Physicists, Sociologists, Political Scientists, Managers and Administrators have to work together in the common pursuit of true understanding. Hence the University has established a Rayalaseema Institute for Regional Planning and Development which will offer post M.A. and M.Sc. courses. M.Phil. and Ph.D. programmes on an interdisciplinary basis. The Institute can serve the functions of a "Grassroots academy" keeping constant touch with the facts that constitute the raw material for a variety of research activities. What is sought by the University in starting this Institute is to offer an institutional framework within which all disciplines can collaboratively work to tackle regional as well as national problems. But if the Institute is to function effectively we need to fill certain gaps in our social sciences as well as physical and natural science departments. So there is need to start Departments of Geology, Geophysics, Psychology, Social Work and Home Science. These together with the already existing departments will go a long way in fostering and promoting interdisciplinary

study and research of problems at the regional as well as national level

The All India Board of Management Studies has given recognition to our M.B.A. Course as recommended by the Team of Experts sent to the University to evaluate this programme. This recognition has come as a great boon to the University. Accepting the recommendations of the All India Board of Management Studies, the U.G.C. has sanctioned liberal assistance to strengthen the M.B.A. Programme in terms of staff, library and equipment, and buildings. This will go a long way in facilitating the University to establish an Autonomous Institute for Management and Development Studies.

Affiliation

The University which is at present a residential institution is soon acquiring a federal character. The Government of Andhra Pradesh has decided, with the concurrence of the University Grants Commission, to make Sri Krishnadevaraya University an affiliating University. The University Act has been suitably amended empowering the University to affiliate all colleges located in the two districts of Anantapur and Kurnool. About sixty colleges in these two districts will soon be under the jurisdiction of our University. This is going to cast a heavy burden on the University. However, the University is willing to accept this responsibility in the hope of serving the academic interests of the students of these two districts more effectively. We also welcome this as a right step in the direction of the creation of more autonomous colleges and the diversified growth of educational interests in these two backward districts. While agreeing to accept this additional burden, it must be mentioned that the University, in order to be able to discharge its duties and responsibilities as an affiliating University, needs adequate administrative and non-teaching staff. It is hoped that the Government of Andhra Pradesh will recognise this need and sanction adequate financial assistance to establish an effective administrative structure with competent personnel to take care of the educational interests and promote the development of the affiliated colleges.

Conclusion

This is a critical period in the history of Sri Krishnadevaraya University as it stands on the threshold of the Twenty-First Century with all the scientific and technological challenges and opportunities it offers. The University has to respond positively and creatively to the call of the new century and acquire necessary resilience and vitality to adapt and adjust itself to the ever-changing scientific and technological environment of the age by retaining a firm commitment to the rich cultural and spiritual heritage of India. As an infant University, Sri Krishnadevaraya University possesses vast potential for growth, but it needs the cooperation, support and goodwill of the Government and the people of this region to actualize its potentialities. □

Where Have all the Values Gone ?

Nikhil Chakravarty

September 5 each year is observed as Teachers' Day. It is so observed because it is the birthday of Sarvepalli Radhakrishnan, the teacher who was honoured as the second President of the Republic of India. Those who have had the good fortune of being counted as Radhakrishnan pupils will always feel proud that he was the Professor-President of the land of ancient seers and modern avants and that humble teachers from different corners of the country are honoured every year on his birthday.

This year September 5 has come and gone leaving behind the disturbing memory of an ugly episode. For more than a month before that day, a massive strike of 230 thousand college and university teachers had gone on, demanding improvement in their terms of service as set by the Government. And actually the day before a settlement was arrived at in the form of an agreement signed by the Chairman of the University Grants Commission and the Secretary of the Union Education Department on the one hand, and the representatives of the All-India Federation of University and College Teachers Organisation, including its President and General Secretary.

These representatives of the teachers' federation found the settlement acceptable, though obviously as a compromise it could not possibly meet all the demands of the striking teachers.

What is noteworthy is that this settlement of the strike has met with the approval of the bulk of the college and university teachers all over the country. The majority viewpoint among the striking teachers was that what could not be realised immediately could be the subject of further negotiations to be taken up at a future date. Just at the present moment they felt that the settlement as envisaged in the federation agreement with the government warranted them to withdraw the strike, which had for more than a month disrupted the study of lakhs of college and university students all over the country.

But there was angry opposition to the agreement by another section of teachers who, as later developments have made it amply clear, form a minority in the university and college teacher community taking the country as a whole. Particularly vocal in their

opposition to the agreement have been the teachers from the universities in Delhi. In fact, they have spearheaded the attack on the agreement. There is an understandable — but not necessarily rational — explanation for this angry outburst against the agreement from the aggressive section of teachers. They had already extracted concessions from the government through a protracted strike two years ago and so they had the misgiving that the present settlement might cut into their gains.

There was thus scope for differences within the federation, and the normal and proper channel for settling such differences is obviously the Executive Body of the Federation. Although the President and office-bearers of the Federation had been authorised before hand to negotiate and settle the dispute with the Government, one can of course demand that the terms of the settlement must be taken up for reappraisal within the Federation, particularly in its national executive.

In fact two days after the signing of the agreement on September 4, the national executive of the Federation met and after heated arguments and angry discussions, endorsed the agreement by a substantial margin of 57 to 35 ; in fact the margin was actually 65 to 35, since eight of the office-bearers, the target of minority attack, refrained from voting.

What is intriguing is the extraordinary anomaly

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of the stand of the CPM leadership and the teachers belonging to that party. While the CPM leadership of the Delhi University teacher's union has denounced the agreement and has insisted on continuing the strike, the West Bengal University and College Teachers' Association, has welcomed the agreement. There is therefore ample scope for genuine differences of opinion among the teachers in their assessment of the agreement. Obviously, the legitimate course for sorting out such differences is to thrash these out through discussions within the teachers' organisation and not in a rowdy manner on the maidan.

But that was precisely what happened on the morrow of the agreement. At a gathering of members of the Federation near New Delhi's Jantar Mantar, the aggressive local teachers not only surrounded the President and the General Secretary of the Federation but physically assaulted them in public tearing off their clothes and smearing them with dirt, and it was the police which arrived to rescue them. A shocking sight of insensate intolerance which had the character of an underworld brawl.

It is intensely disconcerting that a community of teachers should indulge in such an attack and humiliate their fellow-teachers in such an intolerable situation. Those who are supposed to have been entrusted with educating our youth and uplifting their character to become worthy citizens of this great country, were indulging in violence against their own colleagues. Isn't this a case of total abdication of moral responsibility?

Let us look at this shocking experience from another angle. Take the Federation President who was beaten up by his colleagues. He is known to be a distinguished teacher. How will he be able to exhort his pupils to practise discipline and preserve integrity? And the teachers who have participated in such goondaism, how can they go back and claim the respect and attention of their pupils?

It is this exhibition of moral degeneration of a section of the only teachers who are supposed to be custodians of our civilizational heritage that has become a matter of grave concern for all right thinking citizens of this country. It provides the measure of our abdication of cherished values. It is time eminent academics instead of withdrawing into their shells came forward to enforce civilized norms of conduct on the part of their colleagues.

For me, the beating up of teachers by their collea-

gues on his birthday was like beating up the memory of Radhakrishnan himself. Not anger but anguish disturbs many of us at this misconduct of those who are supposed to carry the lamp of learning in this land. Must not our teachers pause and count the beat of their conscience within them? Let them realise that they are supposed to teach their pupils that rowdyism is not revolution, and that we do not want to import into this country the vulgarity of the so-called "cultural revolution", which has been repudiated in the very land where it surfaced. □

[Courtesy : The Times of India]



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Students and Mass Education

D. K. Gogoi* and N. Bordoloi*

For the last two decades, there has been an "explosion of concepts" in the field of education, resulting in a number of approaches, types and forms of education, viz. adult education, life long education, correspondence education (distance teaching), non-formal education, extension education, mass education, etc. This has widened the scope of education beyond the formal system and the benefits have been extended to the people irrespective of their physio-socio-economic conditions and or geographical locations.

The concept of "mass education" has atleast two connotations. One points to the education of non-elite mass i.e. education of the people who are under privileged, poor and illiterate. The other connotation is the target level of educational efforts viz individual, group and mass level of education. The latter aimed at reaching a larger section of the society at a particular point in time. The second connotation is parallel to the concept of mass communication. The significance of mass education is, however, embedded in both the connotations of the term. The education for the masses is relevant and important to achieve our goal of rural development and also to meet a situational need arising out of mass illiteracy, ignorance, poverty and inequality among the rural people. This justifies the approach of education in mass level to accelerate the process of rural development. In fact, education has been recognized as one of the inputs to bring about socio-economic change in society.

India is a vast country with a population of 684 million out of which 70 per cent live in rural areas. About 294 million of the total population are living below the poverty line (1977-78) and 446 million (1981) are illiterate¹. In such a situation all potential resources should be used to educate the masses, particularly the rural mass. Shah (1982) observed that "the problem of illiteracy in India and other developing countries requires an imaginative approach involving a large-scale utilization of mass media (other resource channels should also be used) for giving what is called 'fundamental education' to vast illiterate masses possibly without waiting to impart literacy".² The students community, if properly mobilized can serve as effective channel to reach the masses with the "fundamental

knowledge" for their own development and to play an effective role in national development.

'The students of today are the citizens of tomorrow'. As future citizens, they must have the real picture of the society in which they live and must understand the problems of the fellow citizens. In order to realize the gravity of the situation and to develop a positive feeling for the masses, no statistics or statistical table can help, unless the students see by themselves, directly talk with the downtrodden, interact with illiterates and sit with the poor.

The present system of formal education is mostly catering to the need of the elite group of people. Possibly, the formal educational system had helped directly or indirectly, the process of division of population into the elite and the mass. Reddy (1980) observed two important consequences of educational systems created by the elitistic society. First, the gap between the elite and mass has increased and the dominance of the elite over the mass was institutionalized. Secondly, the relevance of formal system of education which is designed by the elite for the purpose of elite society, becomes ineffective for the rural society³. Even at the micro-level of society i.e. within a family, barrier develops between the literate educated and illiterate members.

The students may be involved in educating their family members, their neighbours, their villagers, and the potential learners around their educational institutions. The students should be taken to the villages and slums in the cities to educate themselves and to educate the masses.

Involving Students

While involving the students in mass education, care must be taken to mobilize them properly, without loss of their academic interest. The nature and extent of involvement should be such that it supplements their efforts to learn more on the subject matter, which is taught.

(a) Direct and Indirect Involvement

The direct involvement includes the out-campus activities of mass education. The students go to the

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villages or slums in the cities and directly contact the potential learners so carry out their educational projects/activities.

The indirect involvement encompasses the in-campus activities related to mass education. The students may organize competitions in mass production of visual aids for illiterates; write essays, poems, articles, short stories for literates and neoliterates. They may also organize group discussions, conferences, seminars among themselves, on topics related to mass education. The indirect involvement may also include inter-campus educational activities, that is to say, exchange of knowledge between two groups of students from different campuses or institutions.

The students should be involved both directly and indirectly in mass education. The direct and indirect involvement may be viewed as exploring their maximum inherent potentialities which in course of time will pragmatically mould their personalities.

(b) Voluntary Vs Involuntary Participation

The participation of students in mass education may be voluntary or involuntary. In other words the participation may be optional or compulsory.

In order to ensure effective participation of all sections of the students, some amount of compulsion may be necessary.

(c) Academic or Non-academic Activities

If the subject matter content of mass education can be selected properly and can be linked with the course curriculum, student participation in mass education may be a part of their academic activities.

The students may also be involved in mass education through their extra-curricular activities like NCC, NSS, etc. The NSS cadets usually organize camps to provide labour service in construction or repairing of roads, buildings, etc. These camps can easily be converted and/or extended to training camps for the villagers or any specific target group.

(d) Periodic or Continuous Involvement

By 'periodic involvement' is meant to involve the students when the need arises. For example, during war-time, floods and droughts, famines, or any other national crisis.

The 'continuous involvement' means systematic involvement of students with well designed programmes to educate masses at different stages of their (students') training. The continuous involvement of students in mass education may require a well conceived national

policy and a well designed programme with all the needed facilities and funds.

Area to be Covered

'Area' here implies : (a) Geographical area, and (b) Subject matter area.

If it is decided to involve students in mass education, a geographical area like a neighbourhood, a village or a cluster of villages, a development block, a subdivision/district may be allotted which may be called the 'service area' of an institution. The service area should be allotted on the basis of level of education, population of students and other facilities available in the institution.

The subject matter or content of mass education must be identified and selected properly to involve the students in the programme. A list of contents may be prepared based on the needs of the situation (local and national level) and organized in a hierarchy to involve the students from lower to higher levels of their education. A part of the subject matter may be kept as "general" which may be covered by all the students irrespective of their academic background. The other parts may be kept for students of specialized branches like agriculture, engineering, medical, etc.

Conclusion

Although, there is much scope of involving students in mass education, yet a number of problems like time constraint, motivation of students and the target group, operational difficulties, etc can also be foreseen. These can be overcome through a systematic and well organized programme of involving students in mass education. The number and type of problems may also vary according to the nature and extent of students' involvement in mass education.

To begin with, a pilot scheme in the line of NSS, may be designed to involve the students in the mass education programme to find out the problems and operational difficulties. The scheme may be implemented on a limited basis. At the initial stage, the participation of students should be voluntary and non-academic nature. □

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1. The Times of India-Directory and Year Book (1984).
2. Shah, G.B (1982) "A call for Media Revolution" in Educational Technology, Newsletter Vol 5, No. 1.
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The Teaching of Wildlife Science

H. S. Panwar and W.A. Rodgers*

In February 1986 the Wildlife Institute of India and Aligarh Muslim University cosponsored a symposium on the "Role of Universities in Wildlife Education and Research." The Symposium, which received UGC funding, was attended by delegates from Universities, Central and State Government Wildlife Organisations, Research Centres plus a visiting team of wildlife professors and managers from the U.S.A. Theme papers on planning and teaching wildlife science curricula, the need for a trained cadre of wildlife scientists and an overview of research priorities in wildlife preceded considerable discussion. Delegates passed a set of resolutions which have since been forwarded to Government Wildlife Organisations and to the University Grants Commission.

These resolutions will be valuable to all universities with an interest in developing courses in aspects of wildlife science, and so they are summarised here, with explanatory justification where necessary.

(1) The universities have a vital role to play in the establishment of Wildlife Science as a multidisciplinary, field-oriented and applied subject, representing wildlife biology and management as they relate to the Indian context.

It is time to recognise and encourage the emergence in India of a distinct discipline of Wildlife Science, which draws elements *inter alia* from subjects such as zoology, botany, forestry, natural resource management, veterinary science, rural development and human ecology. The universities should foster the growth of this applied subject by (a) teaching it at appropriate levels, (b) providing a strong scientific foundation through active involvement in field research, and (c) testing and developing the methodology by which scientific knowledge is applied in the management of wild animal and plant resources.

(2) In order to promote Wildlife Science within the university system, it is recommended that the University Grants Commission create a panel on Natural Resources Management, allocate funding for the establishment of a small number of university wildlife centres and endorse appropriate wildlife M.Sc. programmes

so as to facilitate their recognition by Public Service Commissions as postgraduate qualifications in science.

(3) University teaching of wildlife, which must have clearly defined objectives, should mainly be at the postgraduate level and, whilst broadly following common curricula, should allow local variations in teaching pattern and emphasis of subject matter.

Objectives in teaching wildlife science should include (a) the creation of interest in the subject, (b) drawing attention to the problems of wildlife and natural resource conservation and its importance to human welfare, and (c) the preparation of students for careers in the wildlife field—research, education, management, etc.

Undergraduate courses should be confined to general instruction on conservation of natural resources, both arts and science students, and a paper or part paper on wildlife and natural resources at B.Sc. final year level in zoology, botany or life sciences. At postgraduate level where wildlife teaching should be mainly concentrated, three broad patterns are possible, viz., (a) a paper or part paper on wildlife within a general M.Sc. in zoology, botany, life sciences, forestry, environmental sciences, etc., (b) a one-year specialisation in wildlife within an M.Sc. in one of these fields, and (c) a full 2-year M.Sc. degree in wildlife science.

Appendices to these resolutions contain suggested outlines for syllabi at various levels. It is recommended that in order to ensure uniformity, universities adopt the broad multidisciplinary pattern indicated for wildlife teaching. However, local variations in teaching pattern and course arrangement are to be expected. Similarly, local emphasis of subject matter, reflecting regional diversity in wildlife distribution and management approaches, will enhance the overall growth of the discipline of wildlife Science in the country.

(4) In order that wildlife faculty and postgraduate students are actively involved in field research, concerned departments of the Union and State Governments should provide funds and collaborate in the selection and execution of projects, ensuring their relevance to conservation problems and the need for scientific data as a basis for management.

*Wildlife Institute of India,
New Forest, Dehra Dun-248 006.

(5) There is an urgent need for staff development programmes in wildlife science including short training courses, the encouragement of interaction between university faculty and experienced wildlife managers and promotion of the exchange of information on wildlife teaching and research findings.

(6) The Indian Board for Wildlife should be approached to endorse cooperative activities between the universities and state wildlife organisations, while the Wildlife Institute of India should act as a nodal agency in the arrangement of workshops and training tours and the co-ordination of wildlife research on a national basis.

In retrospect three major conclusions developed from this symposium. The first was that there is a need for greatly increased teaching inputs in the field of environmental conservation including wildlife resources at all levels of University Education. Every science student should be aware of present day environmental problems.

The second conclusion was that wildlife teaching can be offered in many ways, from a part or single paper at B.Sc. level, to a full year or two year specialisation at M.Sc. level. All such alternatives have their values, but only a few institutions should offer the full one or two-year M.Sc. courses. Wildlife

science is an extremely broad field and the student needs a good grounding in basic biological sciences before taking the more applied aspects of the curriculum. This will usually mean the student taking general biology courses in the first part of an M.Sc. programme.

The third conclusion was that wildlife science cannot be taught solely in the classroom. The University must be able to offer adequate field course teaching facilities. Effective teaching needs textbooks and journals, field and laboratory equipment and study material. Institutions contemplating Wildlife teaching will need considerable preparation time.

Some of these issues were elaborated in the theme papers presented at the Symposium, copies of which can be obtained by writing to the Director, Wildlife Institute of India, P.O. New Forest, Dehra Dun-248 006, or to Chairman, Centre for Wildlife and Ornithology, Aligarh Muslim University, Victoria Gate Block, Aligarh -202 001.

Since the symposium, two important developments have taken place. Aligarh Muslim University have created a Centre of Wildlife and Ornithology which teaches at the B.Sc. level and a full M.Sc. in Wildlife Science. The Wildlife Institute of India will be offering a two-year M.Sc. programme in Wildlife Biology in co-operation with a University. The Institute is planning a mid workshop in the teaching of wildlife ecology for University staff, probably in Dec. 1987. □

Prin. L.N. Welingkar Institute of Management Development & Research

195 SION, BOMBAY

Applications are invited for the following full time faculty in the areas of General Management, Organisational Behaviour, Economics, Personnel Management, Production, Marketing and related disciplines in the Institute.

I. Professor

- (a) Good Academic record with a doctoral degree or equivalent published work of quality and actively engaged in research.
- (b) About ten years experience of teaching and/or research
- (c) Experience of guiding research at doctoral level

II. Reader

- (a) Good academic record with a doctoral degree or equivalent published work. Evidence of being actively engaged in research
- (b) About five years' experience of teaching and/or research provided that atleast three years were as Lecturer or in an equivalent position

III. Lecturer

- (a) A Doctor's degree or research of an equally high standard
- (b) Good academic record with atleast a high second class Master's degree from an Indian University or an equivalent degree from a foreign University

Application in the prescribed form together with copies of certificates should reach the undersigned on or before 1st November 1987. Candidates who are already employed shall send their applications through proper channel. Pay scales and other service conditions for the post I, II, III will be as per Bombay University rules. Other things being equal, preference will be given to backward class candidates. Educational qualifications can be relaxed, at the discretion of the Management, in case of candidates having adequate experience of working in an industry.

Prescribed forms of application can be obtained from the office on payment of Rs. 10/- or Postal order per form.

Dr. S. D. Kanandaker

National Conference on Role of Universities in Implementation of New Education Policy

The Association of Indian Universities will organise, in collaboration with Osmania University, a National Conference on Role of Universities in Implementation of New Education Policy on December 18 & 19, 1987 at Hyderabad.

The New Education Policy (NEP) visualises the role of higher education as providing people with an opportunity to reflect on the critical social, economic cultural, moral and spiritual issues facing humanity. It contributes to national development through dissemination of specialised knowledge and skills.

The role of universities is crucial in the matter since one of the important functions of universities and institutes of higher learning is to provide specialized scientific and technical skills, imparting of knowledge, contributing to every sector of national development and improving social conduct and behaviour. Thus, a major share of responsibilities, as envisaged in the NEP, rests with the universities and other educational institutions. It becomes imperative for the educational community to try to define some of the important issues involved in the management of higher education, the efficiency improvement, the financing of higher education, youth services and physical fitness programmes, education in human values, etc. in the light of the NEP recommendations.

The deliberations of the conference will focus on the following topics :

I. Management of Higher Education

- * Consolidation and Expansion of Institutions
- * Autonomous Colleges and Departments
- * National Apex Body and State Councils of Higher Education

II. Improvement in Efficiency

- * Teachers Training
- * Restructuring of Courses
- * Research and Extension
- * Evaluation and Examinations

III. New Strategies in Higher Education

- *Evaluation and Accreditation of Institutions
- * Youth Services, Sports and Physical Fitness Programmes
- * Distance Teaching/Learning
- * National Testing Service
- * Rural Universities
- * Education in Human Values

PROGRAMME

December 18, 1987 (Friday)

10.00 A.M.	JNAUGURATION
11.30 to 1.00	SESSION I
2.00 to 4.30	SESSION II
	<i>December 19, 1987 (Saturday)</i>
9.00 to 11.30 A.M.	SESSION III
12.00 to 1.30	SESSION IV
2.30 to 4.30	SESSION V (Plenary)

Participation

The participation to the conference can be either in the form of presentation of a paper or through discussion. The participation to the conference is open to individuals belonging to universities, research institutions, Govt. and non-Govt. organisations involved in planning and development of higher education.

Registration Fee

Each delegate is required to pay a non-refundable registration fee of Rs. 400 through a bank draft in favour of the Secretary, Association of Indian Universities, New Delhi. The fee includes accommodation, conference papers and meals during the conference dates, December 18 & 19, 1987.

Last date for receipt of registration fee alongwith registration form (to be filled in duplicate) is October 15, 1987.

Venue

The venue of the conference is Osmania University, Hyderabad, A.P.

Language

The official language of the conference will be English.

Receipt of Papers

The papers (Typewritten and in duplicate) should reach the Convenor not later than October 15, 1987.

Convenor

Dr. V. Natarajan
Project Director (Exams)
Association of Indian Universities
AIU House, 16 Kotla Marg
New Delhi 110 002.
Telephone : 3310059
Telex : 31-5578 AIU IN
Telegram : 'ASINDU'

Jan Shikshan Nilayam

The National Literacy Mission has proposed the establishment of a Jan Shikshan Nilayam for every 5000 population. The purpose of the Nilayam is to provide an opportunity for continuing education for neo-literates, who have finished a basic literacy programme at an Adult Education Centre or through the Each One, Teach One Programme, to maintain and enhance their literacy level.

Though the concept of the Nilayam has been accepted in principle by the Parliament and thus by the University Grants Commission, the procedures for its establishment are yet to be worked out. Therefore the opening of a Jan Shikshan Nilayam at D.G. Ruparel College, a leading college of the University of Bombay, is a bold step forward since it has not waited for bureaucracy and for grants. A sewing-machine, a T.V. set and books have been put-together for the Nilayam with the support of Mr. A. Dahanukar of the Rotary Club of Bombay.

The opening of the Nilayam is a sequel to the National Seminar for Undergraduate Curriculum for Community Colleges at Gujarat Vidyapith in July, 1987.

Dr. R.H. Narang, Director, Department of Adult and Continuing Education and Extension, University of Bombay said that it was frustrating to watch neo-literates lapse into illiteracy because of the absence of a Follow-up Post-literacy Centre. Hence the establishment of a Nilayam was imperative. The establishment of a Jan Shikshan Nilayam is only a step towards finally establishing community colleges and schools.

The Jan Shikshan Nilayam was inaugurated by Prof. Ramlalbhai Parikh, Vice-Chancellor, Gujarat Vidyapeeth. In his inaugural address he observed, 'Today Shikshan has marched ahead of Shaasan in Bombay University as it has not waited for formal approvals and consequently grants.' It is a dream come true as now education will reach out to the community and become relevant and meaningful. At the Nilayam anyone can be a teacher or a learner. If our 35 lakh students were to teach and guide even 5 persons each through the Nilayam, the country would be free of the stigma of illiteracy within the next ten years, he said. 'Bombay University has shown that only a WILL is required to march ahead as at the Nilayam, students will teach, with the country's progress as their only remuneration. The Bombay University has taken the lead in establishing a model for non-formal education and setting a pace for others to follow', he added.

Prof. Abhyankar, Pro-Vice Chancellor, Bombay University commended Prof. Pradhan, Principal, D.G. Ruparel College and Prof. Shinde of Non-Formal Education for their commitment not only to excellence in formal education but also in achieving adult literacy. He hoped that other colleges, particularly those in the rural areas, would follow the pace set by this college.

The inauguration was attended by student instructors, women learners from nearby joppad-pattis and mill area and by the College staff.

Recognition for Cochin Varsity

The Physics Department of the Cochin University of Science and Technology has been identified by the University Grants Commission (UGC) for research in the high priority area of superconductivity. This is in recognition of the expertise and equipment facilities of the Department. During the past 5 years the Physics Department of the University has undertaken research work in areas that are directly related to superconductivity and rare earth compounds.

As an initial step the UGC has granted an assistance of over Rs. 4 lakhs to promote research and development in the area of high temperature superconductors.

Developments in superconductivity have attracted attention of scientists all over the world because of their immense potential for use in fields like electrical machinery, surface transport, energy storage devices, solar energy utilisation, computers and much more. This opens up entirely new vistas of research, engineering and applications. It may be recalled that an Apex Body has been recently set up under the chairmanship of the Prime Minister to promote superconductivity related to research and applications on a high priority basis.

Surgery Up-date '87

Hon'ble Mr. H. L. Kapur, Lt. Governor of Delhi, inaugurated a seven-day workshop on "Surgery Up-date '87 as part of continuing medical programme", in New Delhi organised by Maulana Azad Medical College and the

associated G.B. Pant and J.P. Hospitals. He said formal education provided only a base, and such workshops and seminars on continuing medical education enabled doctors and scientists to keep abreast with advancements made in medical profession.

Mr. Kapoor said that to review and put all advancements of scientific knowledge and progress in the field of surgery to practical application, such programmes were of great importance as they provided a forum to discuss the latest technique in surgery and allied matters.

Stressing the importance of continuing medical education, Mr Kapoor said, Education and life are inseparable and coterminous. There cannot be education which is lifeless. Education begins with birth and continues as long as one lives".

The Lt Governor declared that students of Maulana Azad Medical College will be provided with close circuit TV facility to enable them to see for themselves the operations being performed by experts in its associated G.B Pant and J.P. Hospitals.

Summer School on Plasma Physics

The Department of Physics of the Ravishankar University organised an All India Summer School on Plasma Physics for the benefit of students and the research scholars. During the course of the 3-week School, special lectures were delivered by the faculty drawn from the universities of Delhi, Jadavpur, Kalyani, Rajasthan, Ravishankar and IIT, Delhi. The subjects covered included

Energy Crisis, Tokomak, Chaos, Artificial Intelligence, Quasars, Kinetic Theory and Electron-Neutal Collision Processes. Films on astrophysical objects, solar system galaxies, universe and cosmology were also exhibited during the School.

19 research fellows and 18 students from different universities and colleges attended the Summer School.

Incentives for Student Volunteers

The Panjab University has decided to give incentives in the shape of credit points to student instructors and student volunteers for participating in the eradication of illiteracy and mass movement for functional literacy programmes. For making 10, 15 and more than 15 adults literate, the instructors will be given one, two and three credit points, while the volunteers will get the same number of credit points for making two, four and more than four students literate respectively. These incentives will be credited for deciding students' admission to higher classes and professional courses.

Azad Varsity Introduces Home Science

The Chandra Shekhar Azad University of Agriculture and Technology Kanpur has decided to start a new faculty of Home Science. In the first instance students will be enrolled to the B.Sc. Home Science course. Through this new faculty the university hopes to meet the long standing demand of education of girls in Home Science in Kanpur, in particular, and the State of Uttar Pradesh, in general. The Home Science Faculty building was recently inaugurated by Mr. Narendra Singh, Minister of Agriculture, Uttar Pradesh.

Biotek India 88

An International Conference and Exhibition on Biotechnology called Biotek India 88 will be organised in India in October next year. It will highlight processes, equipment, materials and services related to technologies which the Department of Biotechnology has already identified as priority areas for applications in the health, industry, agriculture, veterinary, energy and ecology sectors.

Some of the technologies which the exhibition will focus on are genetic engineering, immuno and immunochemical technology, biochemical engineering, protein and enzyme technology, microbial technology, bio-electronics, biological process engineering and control, tissue and cell culture technology and bio-informatics.

Tagore Literacy Award

The Indian Adult Education Association has decided to institute a Tagore Literacy Award for women to be presented each year for outstanding work for women literacy.

The Association has also decided to institute a Tagore Endowment Fund to mark the 125th Birth Anniversary of Gurudev Rabindra Nath Tagore. The Association also proposes to set up a resource centre for correspondence education and non-formal education.

Dibrugarh Varsity Restructures Examination

The Dibrugarh University has restructured the examinations for its three-year degree course and reduced them from three to two from the current academic session. Under the new pattern students

will take Part I university examination at the end of the second year and Part II examination on completion of the third year. The examination for promotion of students from first to second year will be conducted by the colleges. The new courses and syllabi are expected to be announced soon.

New Courses at Anna University

The University Grants Commission (UGC) has accorded its approval to Anna University for the M.B.A. programme with an annual intake of 30. It has also agreed to provide financial assistance, both recurring and non-recurring, towards building, staff, library and equipment for this course for a period of 5 years.

The Commission has also agreed to give financial assistance to the university for running M.Tech programme in Laser & Electro Optical Engineering with an annual intake of 10 students for a period of 5 years.

Research Support for South Gujarat Varsity

The Department of Education of the South Gujarat University, Surat has been awarded Rs. 10 lakhs grant by the University Grants Commission under its Departmental Research Support (DRS) Programme. Educational technology is one of the major thrust areas of the department. The DRS grant provides for educational hardware, services of technical support personnel and other infrastructural facilities.

Under the DRS scheme, the department will undertake two research projects, namely, (1) Application of Educational Technology for Guidance and Counselling Services at Primary and Secondary School level; and (2) Developing Multi-media Package on Population Education for

Creating Awareness among the youth.

Methodology for Women's Studies

The Mother Teresa Women's University, Kodaikanal, proposes to organise a three-day workshop on Methodology for Women's Studies' from 24th to 26th September 1987. The objective of the workshop is to evolve a valid methodology for studying and doing research in Women's Studies' in proper perspective. This will give an exposure to the new ideas and thinking through a series of lecture-cum-discussions with the Resource Personnel, the faculty members, Research Scholars full-time and part-time (Ph.D. and M.Phil.) and Supervisors who have been active in Women's Studies' research and who are deeply involved in development issues.

Renowned scholars like Dr. Malavika Karlekar, Dr. Neera Desai, Dr. Uma Chakravarthy, Dr Kum Kum Roy, Dr Aparna Basu, Dr Prabha Mahale and Dr. C.S. Lakshmi will serve as resource persons.

2 Crore Grant for South Gujarat Varsity

The University Grants Commission is reported to have agreed to provide Rs. 2 crores assistance to the South Gujarat University during Seventh Plan period for the development programmes of the university. The academic programmes proposed to be taken up include (a) Centre for Aquatic Biology; (b) Department of Comparative Literature; (c) Department of Electronic Science; and (d) Department of Computer Applications.

ICAI to Revamp Education Pattern

Radical changes in the pattern of education and updating of course content is contemplated by the Institute of Chartered Accountants of India (ICAI). The Review Committee on Education set up by the Institute in 1984 has submitted its recommendations recently. According to Mr. R. Balakrishnan, President of the ICAI, if the Education Committee's proposals are accepted, the pattern of education would revert back to the old system of admitting students with

Recent Publications

1. Handbook of Medical Education-1987 : Rs. 45.00
2. Monograph on Sample Free Item Analysis : Rs. 50.00
3. Bibliography of Doctoral Dissertations in Social Sciences & Humanities 1983-84 : Rs. 180.00
4. Educational Statistics at a Glance : Rs. 75.00
5. Education and Economic Development : Rs. 25.00

Address Enquiries to :

Under Secretary (Publications)

**ASSOCIATION OF INDIAN UNIVERSITIES
AIU House, 16 Kotla Marg,
New Delhi-110002**

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Telex : 31 5578 AIU IN Gram : ASINDU**

10+2 education as article clerks unlike the minimum prescribed qualifications of a pass in degree examination. The course content would also be updated to reflect the current trends keeping in view

the Institute's effort to standardise accounting standards in all professions all over the country. A paper on indirect taxes is also likely to be added at the final examination.

AIU News

AIU Meetings at Anantapur

Sri Krishnadevaraya University, Anantapur will host the 213th Meeting of the Standing Committee of the Association of Indian Universities (AIU) on 23rd September, 1987. The meetings of the AIU Sub-Committee on Education in Human Values, AIU Staff Affairs Committee and Cultural Committee will be held on 22nd September, 1987.

The Standing Committee will consider setting up a Sub-Committee to interact with the ICAR Review Committee. The Review Committee has been set up by the Government to look into the organisational infrastructure, personnel policies, and the functional role of Indian Council of Agricultural Research and its linkages with other related agencies. Some of the crucial issues involved relate to the coordination of the agricultural universities with the general universities ; ICAR system as compared to UGC system pertaining to plan, non-plan and research grants ; and financial support for sports and students services like NCC and NSS in agricultural universities. Another important proposal to come up before the Committee calls for raising loans to deserving students repayable over longer years of period when one is employed. Another related proposal is the introduction of production

centres at universities in collaboration with organisations like Khadi and Village Industries Commission, National Small Scale Industries Corporation, etc. These production centres are expected to generate resources and augment experimentation and innovation in the universities. They will also provide students experience in productive work and make available to them 'earn while you learn' opportunities.

There is also a proposal that donations made to universities/deemed universities should qualify for a cent per cent exemption from Income Tax. Presently, there is a provision that each individual university can approach Income Tax authorities for getting a notification issued exempting donations made to it for scientific and social research only. The procedure, however, is long and cumbersome, and there are many restrictions on the use of these donations. The proposal under consideration seeks an amendment to the Income Tax Act, whereby, donations made to universities and deemed universities *ipso facto* enjoy 100% exemption from Income Tax. This will provide universities with a general purpose cushion fund subject, however, to accountability under the university rules.

The Standing Committee will have for its consideration requests from Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow ; Arunachal University, Itanagar ; and Rajasthan Vidyapeeth, Udaipur for membership of the Association. It will also consider the report of the AIU Visiting Committee for grant of regular membership to Bharathidasan University, Tiruchirapalli. In addition, the Standing Committee will consider reports of its sub-committee on Erosion of University Autonomy; Adult Education and Extension ; and Education in Human Values.

To be presided over by Prof. G. Ram Reddy, President, AIU and Vice-Chancellor, Indira Gandhi National Open University, the meeting is likely to be attended by Dr. P.V. Salvi, Vice-President, AIU and VC, Konkan Krishi Vidyapeeth ; Prof. Ramesh Mohan, VC, Mecrut University ; Dr Sukhdev Singh, VC, Punjab Agricultural University, Prof. V.D. Gupta, VC, Gorakhpur University ; Prof. M Abel, VC, Sri Krishnadevaraya University ; Dr S Krishnaswamy, VC, Madurai Kamaraj University, Dr H P. Dikshit, VC, Rani Durgavati Vishwavidyalaya ; Prof K N Shah, VC, Saurashtra University, Prof. Ramlal Parikh, VC, Gujarat Vidyapith ; Dr. K B Powar, VC, Shivaji University ; Prof T Navaneeth Rao, VC, Osmania University and Dr S.N. Saraf, VC, Sri Sathya Sai Institute of Higher Learning.

Many Vice-Chancellors will also be attending the National Symposium on Value Orientation in Higher Education at Prasanthinilayam from September 24 to 26, 1987. The symposium has been organized by Sri Sathya Sai Institute of Higher Learning and is sponsored by the University Grants Commission and the Association of Indian Universities.

Sports News

Grants for Inter-Varsity Tournaments Raised

The Govt. of India has made an upward revision in the norms of financial assistance for organising Inter-University Tournaments conducted at various university centres. Thanks to the persistent efforts of AIU, all the organising Universities will be benefited by the revised grants. It will indeed give a big boost to sports in the University Sector.

The scheme of financial assistance was introduced in 1983-84. To determine the quantum of financial assistance, all the Inter-University Tournaments are grouped into 4 categories, namely A, B, C & D. For the tournaments under category 'A', the earlier ceiling of Rs. 20,000 for Athletics has been raised to Rs. 60,000. Similarly, for tournaments included in the category 'B', the limit of Rs. 10,000 goes up to Rs. 15,000. Universities organising other tournaments will receive enhanced funding of Rs. 10,000 and Rs. 7,500 respectively for tournaments under category C & D for which earlier ceilings were Rs. 7,000 and Rs. 5,000.

Enhanced ceilings of grants for various Tournaments are as follows :

Tournaments	Zone	Ceiling Limit of Financial Assistance (Revised)
Category 'A'		
(i) Athletics (M & W)	All India	Rs. 60,000
(ii) Swimming, Diving & Water Polo.	All India	Rs. 30,000
Category (B)		
(i) Cricket (M)	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(ii) Cricket (W)	All India	Rs. 15,000
(iii) Football	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(iv) Badminton (M & W)	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(v) Table Tennis (M & W)	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(vi) Hockey (M)	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(vii) Tennis (M)	North Zone	Rs. 15,000
	South Zone	Rs. 15,000
(viii) Tennis (W)	All India	Rs. 15,000
(ix) Volleyball (M)	East Zone	Rs. 15,000
	West Zone	Rs. 15,000
	North Zone	Rs. 15,000
	South Zone	Rs. 15,000

1	2	3
(x) Volleyball (W)	North Zone South Zone	Rs. 15,000 Rs. 15,000
(xi) Basketball (M)	East Zone West Zone	Rs. 15,000 Rs. 15,000
(xii) Basketball (W)	North Zone South Zone	Rs. 15,000 Rs. 15,000
(xiii) Hockey (W)	North Zone South Zone	Rs. 15,000 Rs. 15,000
Category 'C'		
(i) Kabaddi (W)	North Zone South Zone	Rs. 10,000 Rs. 10,000
(ii) Kho-Kho (M)	North Zone South Zone	Rs. 10,000 Rs. 10,000
(iii) Kho-Kho (W)	North Zone South Zone	Rs. 10,000 Rs. 10,000
(iv) Handball (M & W)	North Zone South Zone	Rs. 10,000 Rs. 10,000
(v) Ball Badminton (M)	North Zone South Zone	Rs. 10,000 Rs. 10,000
(vi) Ball Badminton (W)	North Zone	Rs. 10,000
(vii) Boxing	All India	Rs. 10,000
(viii) Chess	North Zone South Zone	Rs. 10,000 Rs. 10,000
(ix) Kabaddi (M)	East Zone West Zone	Rs. 10,000 Rs. 10,000
(x) Gymnastics and Malkhambh	North Zone South Zone	Rs. 10,000 Rs. 10,000
(xi) Wrestling	All India	Rs. 10,000
(xii) Wt Lifting and Best Physique	All India	Rs. 10,000
(xiii) Judo	All India	Rs. 10,000
Category 'D'		
(i) Rowing	All India	Rs. 7,500
(ii) Squash Rackets	All India	Rs. 7,500
(iii) Cycling (M & W)	All India	Rs. 7,500
(iv) Cross-country (M)	All India	Rs. 7,500
(v) Cross-country (W)	All India	Rs. 7,500
The Government has also announced a revision in the financial assistance rendered to the Association for organising coaching camps under the NSO Programme. The existing and the revised rates are reproduced below :		
This gesture on the part of the Government will result in Higher participation in Inter-University Tournaments. Also with the enhanced grants now available, more and more universities will come forward to organise tournaments. The increase in the messing expenses for players will result in improved diet for sportsmen.		
	Current Rate	Revised Rate
Boarding and Lodging Expenses	Rs. 26.00	Rs. 40.00 per day
Incidental Charges during Travelling (for every 12 hours of journey or a part thereof).	Rs. 10.00	Rs. 20.00
Expenditure on ground, essential equipment, etc. (Per camp)	Rs. 1,500.00	Rs. 3,000.00
Contingencies (Per camp)	Rs. 500.00	Rs. 1,000.00

Sunita to Lead Varsity Women Hockey Team

Kum. Sunita of Panjab University, Chandigarh is leading the Indian Universities in the Senior National Women's Hockey Championship being organised at New Delhi from Sept. 19 to 26, 1987. The team comprises:

Sunita (Captain)	Panjab
Ranjana	Delhi
Jaswinder	Guru Nanak Dev
Kuljeet	Punjabi
M.P. Rekha	Mysore

Namita	Panjab
Aruna Kumar	Mysore
Ranjana Kataria	Panjab
Usha H. Bhatia	Gujarat
Pramjeet Sohi	Panjab
Sarita	Kurukshetra
Meenakshi	Panjab
Sunita Pandey	Delhi
M.P. Kaveriamma	Mysore
A.P. Tara	Mysore
Sarojini	Ranchi

The team underwent training at Delhi University under the supervision of Mr. B. Kandulna, Hockey Coach from Ranchi University.

training activities or research projects.

Exceptionally, a third category of fellow will be considered, i.e. *Training Fellows*, who satisfy IIEP's admission criteria but who can only attend selected units of the Institute's Annual Training Programme, combining such partial training activities with a complementary, individually-designed work plan (readings, study visits, seminars, etc.) under the supervision of one of IIEP's specialists. It must be stressed that such Training Fellows will be accepted only on an exceptional, selective basis, given that any partial attendance in the Annual Training Programme leads to complex reprogramming procedures.

News from Abroad

Revised Terms for IIEP Fellows

International Institute for Educational Planning (IIEP), Paris has announced revised terms and conditions of the Institute's programme for Visiting Fellows. This programme, offered on an individually-tailored basis, is designed to assist the professional development of selected participants by providing an opportunity for them to study further various theoretical, methodological and practical aspects of planning, implementing and evaluating educational development programmes and to participate in IIEP training and research activities.

It addresses itself primarily to qualified persons who have experience in educational planning and administration (practitioners, experts, scholars, researchers) and who, because of the nature of their duties, have special interests and are only available for specific periods of training or research work.

The programme is intended to be intensive, involving the study in depth of a specific theme or

problem in association with one or several designated IIEP specialists. Study topics should be chosen in such a way that they permit a fruitful interaction with the research activities of the IIEP as indicated in the Institute's Medium-Term Plan and annual work programme.

Visiting Fellows ordinarily spend from one to six months at the Institute and two main categories of Visiting Fellows are included in this programme:

Research Fellows are visitors of high calibre and internationally acknowledged professional standing whose contribution to the IIEP research and training programme will be of a general, multi-purpose nature. Such researchers should already have had previous experience in conducting empirical research.

Associate Research Fellows are visitors who stay for relatively short periods, following a programme organized by the Institute within the framework of specific

The Institute is not able to provide grants to cover travel and living expenses for Visiting Fellows under its ordinary budget. Each participant or the Institution sponsoring his/her candidature must therefore bear such expenses themselves or obtain a suitable fellowship for this purpose, i.e. from national, bilateral or multilateral granting agencies.

Full details of the programme, including the qualifications required and the application procedure, are available on request from the Director, IIEP, 7-9 rue Eugène-Delacroix, 75116 Paris (France).

We Congratulate . . .

Dr. D.N. Tiwari, I.F.S. who has taken over as Vice-Chancellor, Guru Ghasidas University, Bilaspur (M.P.)

Awards & Medals

INSA Medal for Young Scientists

The Indian National Science Academy (INSA) has selected scientists for the award of INSA Medal for Young Scientists for the year 1987. The selection is based on their significant contribution in their respective fields. The awardees are :

(1) Dr. Ajay Kumar (b. Nov. 17, 1955), Scientist 'B' Division of Membrane Biology, Central Drug Research Institute, Lucknow—for studies on factors/mechanisms responsible for stabilizing the asymmetric distribution of phospholipids in biological membranes using erythrocyte membrane as the model system.

(2) Dr. D. J. Biswas (b. 7-2-1956), Physics Group, Bhabha Atomic Research Centre, Bombay—for his outstanding contributions in the field of Laser Physics and the demonstration of optical chaos using carbondioxide lasers.

(3) Dr. S.K. Biswas (b. 10.11.-1956), Research Associate, Deptt. of Electrical Engineering, Indian Institute of Science, Bangalore—for his innovative contributions towards the analysis, synthesis and implementation of improved performance current source inverter (CSI) fed induction motor drives.

(4) Dr. Dipankar Datta (b. 1.1.1955), Asstt. Professor, Department of Chemistry, Manipur University, Imphal—for his excellent work on parametrisation of ligand effects in inorganic reactions involving complexes of metal ions having closed shell electronic configurations.

(5) Dr. Gotam K. Jarori (b. June 10, 1955), Research Fellow, Solid State Physics-NMR Group, Tata Institute of Fundamental Research, Bombay—for his noteworthy work involving mapping of brain hexokinase active site(s) using magnetic resonance techniques.

(6) Dr. C. Joenathan (b. 24.6.-1958), (Elec. Engg), Project Officer, Engineering Design Centre, Indian

Institute of Technology, Madras—for his important and extensive contributions in the use of optical speckle techniques for metrology.

(7) Shri Mohd Islam Khan (b. December 24, 1957), Project Assistant, Molecular Biophysics Unit, Indian Institute of Science, Bangalore—for elaboration of parameters affecting binding of sugars to lectins.

(8) Shri P. Ananda Kumar (b. 14.11.1955), Scientist, Nuclear Research Laboratory, Indian Agricultural Research Institute, New Delhi—for his meritorious work on the photorespiratory nitrogen metabolism in crop plants.

(9) Dr. (Miss) Sujata Lakhani (b. 14.5.1956), Research Associate Department of Botany, University of Delhi, Delhi—for her outstanding work in the hormonal regulation of enzyme synthesis in wheat embryos during germination.

(10) Dr (Mrs) Priti Mehrotra (b. 20.11.1958), Scientist, Deptt. of Zoology, Banaras Hindu University Varanasi—for her investigations on the use of cis-platin in activating lymphocytes and macrophages which destroy tumour cells.

(11) Dr. R.D.K. Misra (b. 25.12.1957), Scientist 'C', Defence Metallurgical Research Laboratory, Hyderabad—for his important

contributions to our understanding of the interfacial segregation in engineering alloys.

(12) Dr. Sourav Pal (b. 12.5.1955), Scientist, Physical Chemistry Division, National Chemical Laboratory, Pune—for his outstanding contributions to molecular electronic structure using many-body coupled-cluster methods.

(13) Dr. Gopal Pande (b. 26.1.1955), Scientist, Centre for Cellular and Molecular Biology, Hyderabad—for elucidating the mechanism of tumour progression and generation of clonal heterogeneity.

(14) Dr. R. Ramesh (b. 2 June, 1956), Gujarat University's Post-Doctoral Fellow, Physical Research Laboratory, Ahmedabad—for his original contributions to reconstruction of past climates through isotopic studies of tree rings.

(15) Dr. A. Srikrishna (b. 1.1.1955), Lecturer, Deptt. of Organic Chemistry, Indian Institute of Science, Bangalore—for his noteworthy contributions on the application of radical cyclisation route towards simple, general synthesis of bio-active molecules incorporating lactone and suran moieties.

(16) Dr Vasudevan Srinivas (b. June 6, 1958), School of Mathematics, Tata Institute of Fundamental Research, Bombay—for his significant contributions to the K-theory of singular surfaces. He has extended the earlier work of Mumford and Bloch on smooth projective surfaces to the case of normal projective surfaces.

Correspondence Course in Evaluation Methodology and Examinations

Applications are invited from college/university teachers for admission to Correspondence Courses in Evaluation Methodology and Examinations at Basic Level, Intermediate Level and Advanced Level/Special Professional Course. The duration of each of the three courses is six months. A personal 'Contact Programme' for three days is planned for each of the three courses. Universities/ Institutions sponsoring candidates can meet the registration course fee from out of unassigned grants by UGC.

Request for prospectus and application form accompanied by a crossed Indian Postal Order for Rs. 10/- drawn in favour of the Secretary, Association of Indian Universities and a self addressed stamped envelope (Rs. 2/-) should reach the Project Director (Exams), Association of Indian Universities, 16 Kotla Marg, New Delhi 110002. Last date for receipt of applications is 5th October for non-sponsored and 10th October, 1987 for sponsored candidates.

CALENDAR OF EVENTS

Proposed Dates of the Event	Title	Objective	Name of the Organising Department	Name of the Organising Secretary/Officer to be contacted
October 5-9, 1987	Short-term Course on Advanced Image Processing for Remote Sensing.	To appraise the scientists/engineers, working in the area of Image Processing and its Applications to Remote Sensing, regarding techniques, developments and future trends in the field of Image Processing.	Indian Space Research Organisation (ISRO) in collaboration with IIT, Bombay	Dr. T.V. Pavate, Chief Project Engineer [CSRE], Principal Programme Coordinator (Training), ISRO-IIT (Bombay) Space Technology Cell, CSRE Building, Indian Institute of Technology, Powai, Bombay, 400 076.
November 16-20, 1987	Seventh National Symposium on Radiation Physics	To provide a forum for a collective discussion and identification of the emerging new directions in the field of Radiation Physics	Department of Physics, Mangalore University in collaboration with the Indian Society for Radiation Physics	Dr. N. Lingappa, Convener, Programme Committee, NSRP-7 and Head, Department of Physics, Mangalore University, Mangalore.
November 25-27, 1987	International Conference on Mud Architecture	To focus discussion on the concept of Mud Architecture and technology & share national & international experience in this field.	Ministry of Urban Development, Govt. of India, in collaboration with the Govt. of Kerala, HUDCO and the All India Housing Development Association.	Mr. V. Suresh, Organising Secretary, ICMA '87 & Regional Chief, Housing & Urban Development Corporation, K.G. Road, Bangalore - 560 009.
November 26-28, 1987	International Seminar on Instrumental Methods of Electro-Analytical Techniques.	To provide a forum to research workers and practitioners for exchange of information and technical perceptions in instrumental methods of electro-analysis.	Indian Institute of Science, Bangalore.	Prof. M.H. Dhananjaya, Principal and Chairman of the Organising Committee, S.J. College of Engg., Mysore.
December 7-11, 1987	Seventh Triennial International Conference on Thin Films. (ICTF-7)	To take stock of recent progress in the field of science, technology and applications of their films.	Indian Institute of Technology, New Delhi, in collaboration with IUVSTA Thin Film Division and Indian Vacuum Society.	Dr. Lalit Malhotra, Secretary, ICTF-7, Thin Film Laboratory, Deptt. of Physics, Indian Institute of Technology, New Delhi-110016.
December 16-18, 1987	International Symposium on Electronic Devices, Circuits and Systems	To provide a forum to research workers all over the world for exchange of information and technical perceptions in electronic devices, circuits and systems.	Indian Institute of Technology, Kharagpur	Prof. N. B. Chakravarti, Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur - 721302
December 18-19, 1987	National Conference on Role of Universities in Implementation of New Education Policy	The Conference will focus on Management of Higher Education, Improvement in Efficiency and New Strategies in Higher Education vis-a-vis New Education Policy	Association of Indian Universities in collaboration with Osmania University, Hyderabad.	Dr. V. Natarajan, Project Director (Exams) Association of Indian Universities, 16, Kotla Marg, New Delhi-110002
December 28-30, 1987	Third National Conference on Surfactants, Emulsions and Biocolloids.	To provide an opportunity to technologists and experts from academic and research institutions and industries to exchange views and discuss developments related to latest findings from active research.	Aligarh Muslim University in collaboration with Indian Society for Surface Science and Technology.	Dr. H.N. Singh, Reader, Department of Chemistry, Aligarh Muslim University, Aligarh.

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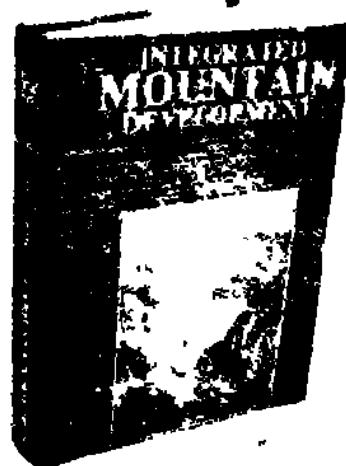
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Doctoral Degrees awarded during the preceding month are reported as 'Theses of the Month' while registrations made for such degrees are flashed as 'Research in Progress'. Bibliographies are also compiled and supplied on demand.

Research scholars and students of education are welcome to use these resources. The Library is open from 9-00 a.m. to 5-30 p.m. Monday through Friday Access can also be had through inter library loan for which requisition must be made through your Librarian.

ADDITIONS TO AIU LIBRARY

Acharyya, N N *Brief history of Assam*. Guwahati, Oms-
sons, 1987. x, 293p

Altbach Philip G *Higher education in the third world : Themes and variations*. Delhi, Radiant Pub (c 1987) 239p

Apple, Michael W *Teachers and texts . A political economy of class and gender relations in education*. New York, Routledge & Kegan Paul, (c 1986) viii, 259p

Bepin Behari. *Unemployment, technology and rural poverty* Delhi, Vikas, (c 1983) ix, 453p

Biswas, Anupam. *Professional computer programming with illustrations in COBOL* Bombay Popular Prakashan, 1987. viii, 132p

Brancazio, Peter J *Sport science Physical laws and optimum performance*. New York, Simon and Schuster, (c 1984). 400p

Brookfield, Stephen *Learning democracy : Edward Lindeman on adult education and social change*. London, Croom Helm (c 1987) 238p.

Dobb, Maurice *Theories of value and distribution since Adam Smith : Ideology and economic theory*. Delhi, Vikas, (c 1973). 295p

Ennals, Richard and Others, ed. *Information technology and education : The changing school*. Chichester, Ellis Horwood (c 1986). 236p.

Evaluation your system : Computer operations guide. New Jersey, Management Information Corp., (c 1979). discontd.

Ezersky, Eugene M. and Theibert, P. Richard. *Facilities in sports and physical education*. Saint Louis, C.V Mosby, 1976. ix, 193p.

Guy, Rebecca F. and others. *Social research methods : Puzzles and solutions*. Boston, Allyn and Bacon, (c 1987). ix 470p.

Harrison Mark. *Practical C*. Cheshire, Sigma, (c 1985). 173p.

Horowitz, Ellis. *Fundamentals of programming languages*. Delhi, Galgotia, (c 1984) xv, 446p

Jamil Farooqui *Academic elite and social structure*. Delhi, Adam, 1986 ix, 275p.

Kahn, Herman. *World economic development 1979 and beyond* Delhi, Vikas, 1985 xxi, 519p.

Khanna, Kirti *Role-structure of academics . A profile of university teachers* Jodhpur, Jain Bros. (c 1987) xi, 146p.

Khokar, Mohan *Dancing for themselves Folk, tribal and ritual dance of India*. Delhi, Himalayan Books, 1987, 173p.

Khurshid, Anis. *Library education in India, Pakistan and Iran* Delhi, Indian Bibliographies Bureau (c 1987) 190p.

Krishan Kumar. *Theory of classification* Delhi, Vikas, 1985 ix, 538p.

Larson, Leonard A *Foundations of physical activity : Applications as disciplines and professions* New York, Macmillan (c 1976) ix, 386p.

Lengrand P *Areas of learning basic to lifelong education*. Oxford, Pergamon (1986) xvi, 251p.

McGarvey, Brian and Swallow, Derek. *Microteaching in teacher education and training*. London, Croom Helm (c 1986) 205p.

Naisbitt, John and Aburdene, Patricia *Re-inventing the corporation*. New York, Macdonald (c 1985) xi, 308p.

Rivera, William M. ed. *Planning adult learning : Issues, practices and directions*. London, Croom Helm (c 1987) 189p.

Shubert, William H. *Curriculum : Perspective, paradigm and possibility*. New York, Macmillan (c 1986), xviii, 478p.

Senior, Barbara and Naylor, John. *Educational responses*

to adult unemployment. London, Croom Helm (c 1987) 174p.
Sharma, Pawan K. *Management information system in the institutions of higher learning.* Jaipur, Kuber Associates, 1987, iv, 89p.

Sodhi, T.S. *Adult education : A multidisciplinary approach.* Ludhiana, Kaisen (c 1986) x, 244p.
Waite, Mitchell and Pardee, Michael. *Microcomputer primer.* Indiana, Howard W. Sams and Co. (c 1980), 384p.

THESES OF THE MONTH

A List of Doctoral Theses Accepted by Indian Universities

HUMANITIES

Philosophy

1. Dansena, Ganga Prasad. *Shreemad Bhagvadgeeta per Shankar, Ramanuj evam Tilak ke bhashyon ka tulnativmak adhyayan.* Ravishankar.
2. Panda, Debashree. *The concept of Avatar in the prasthanatraya in the light on Sankara's commentaries.* Utkal.
3. Prabha, M.L. *Schools of Indian thought : A new interpretation.* Bangalore.
4. Saxena, Dilip. *Naitikta : Vyaktigat evam sansthamak ka sar.* Rajasthan.
5. Valappil, Vijayakumari. *The concept of freedom in the philosophy of Jean Paul Sartre.* Calicut.

Fine Arts

Drawing & Painting

1. Sharma, Chandra Mohan. *Umiyar ke bhitti evam laghu chitron ka sameekshamak adhyayan* Rajasthan.

Language & Literature

English

1. Basu, Kalpana. *From error to happiness : The moral design in Dickens' later novels, 1854-65* Burdwan.
2. Chadha, Ramesh. *Cross cultural interaction in the novels of Jhabvala and Markandaya* HP.
3. Chander Kanta. *Protagonists in the novels of Bernard Malamud. A study in human suffering.* Kurukshetra.
4. Ishwar Chander. *Heroines in the plays of Tennessee Williams.* Kurukshetra.
5. Jha, Ashok Kumar. *An evaluative study of English at the B. Ed. levels.* Rajasthan.
6. Joanus, Fr. Sararimuthu A. *A study of influences on Gerard Manley Hopkins.* Madurai.
7. Nandrajog, Dharam Pal. *Social criticism in the novels of Hamlin Garland, Frank Norris and Jack London* Kurukshetra.
8. Parameswari, D. *A psychological study of the fiction of Virginia Woolf.* Madurai.
9. Sharma, Chander Mohan. *Saul Bellow and the Big City : A study of City Metaphor in Saul Bellow's fiction.* Kurukshetra.
10. Singh, P.N. *Christopher Caudwell and the British Marxist criticism in the 1930s.* Rajasthan.

11. Snehabrappa, M. *Southern identity and the pattern of opposites in the novels of Carson McCullers* Calicut.

12. Surender Singh. *Minor characters in Hemingway's fiction.* Kurukshetra.

Sanskrit

1. Bhattacharyya, Dilip Kr. *Sanskrita samlochana sahitya Mandar-Makaranda Champu.* Burdwan.
2. Kar, Niranjan. *Srimad Gajapati Ramachandra Deva Pranitasya Sri Krishna Bhakta Vatsalya Charitam sameekshyatmakam adhyayanam.* Jagannath.
3. Paster, Sr. *A critical study of the Krishnu Bhagavatam of Prof. P.C. Devassia.* Calicut.

4. Sharma, Rameshwar Datt. *Unnisvin-bissavin shatabdi ke Haryana Sanskrit Mahakavyon ke sameekshatmak adhyayan* Kurukshetra.

5. Sharma, Vinod Kumar. *Jyotish ko Jaipur ka yogdan.* Rajasthan.

Punjabi

1. Harbans Kaur. *Bhai Vir Singh de navtan da thematic adhyayan.* Kurukshetra.

2. Harsimran Singh. *Punjabi novel as Galpi Paradigms.* Kurukshetra.

3. Rattan, Tek Chand. *Punjabi novel, 1950-75 vich rashtriya chetna* Kurukshetra.

4. Virk, Narinder Singh. *Punjabi novel da samaj vigyan, 1900-1960.* Kurukshetra.

Hindi

1. Gupta, Pushpi. *Swatantryottar Hindi natak mein rashtriya bhavana, on the basis of dramas written upto 1975.* Calcutta.

2. Jadhav, Balwant Sadhu. *Dalit characters in Premchand's novels and short stories.* Shivaji.

3. Kejriwal, Kusumlata. *Swatantryottar Hindi natak mein prayog aur parampara.* Calcutta.

4. Muraleedharan, A.M. *Various trends and concepis of modern Hindi poetry after 1970.* Calicut.

5. Om Prakash. *Arya Samaj ke Hindi dharmik aur darshnik sahitya ko den* Panjab.

6. Patel, P.R. *Hindi aur Gujarati ke anchalik upanyas sahitya ka tulnativmak adhyayan.* Saurashtra.

7. Sathe, Nilkanthrao Trimbakrao. *Dinkar jee ke prabandh kavyon ka manavaigyanik adhyayan.* Bhavnagar.

8. Satya Vir. *Gheesa Panth : Siddhanta aur sahitya.* Kurukshetra.

9. Sharma, Jitendra Kumar. *Adhunikta ke sandarbh mein mithakon ka prayog : 1950 tarsi se 1975 tarsi tak kee kavita mein.* Kurukshetra.

10. Sharma, Karan Kumar. *Hindi paryayon ka adhyayan : Manviya gunatmak sangyaon ke sandarbh mein.* Panjab

11. Vaid, Yash Paul. *Swatantryottar Hindi kahani mein prakartvad evam ashleelta* Kurukshetra

12. Yogish Kumar. *Nirmal sampradaya ke alok mein Hari Adrisht Satsaya ka adhyayan : Mool rachna ke sampadan ke sath.* Panjab

Urdu

1. Imran Ahmad. *Mirza Ruswa ke navelon ka samajiyati mutala.* Jamia.

2. Shabbir Ahmed. *ABR Ahsani : Life and works.* Calcutta.

3. Waseem Ara. *Syed Masood Hasan Rizvi Adeeb : Adabi ravalyyon aur tangeedi va tehqeeqi khidmat ka rajziyati mutala* Jamia,

Bengali

1. Chattopadhyay, Bharati. *Sarat Chandra O Bibhuji bhusaner sahitya sisucharitra* Calcutta

2. Ray, Ranjit. *Madhya Yug Bangla kavye loukik samskar biswaser parichaya* Calcutta.

3. Sena, Sudebchandra. *Bangal natake samaj-bhabana-o-silpasristi, 1939-1969* Calcutta

Oriya

1. Mohanty Durga Charin. *Pundit Basudev Mohapatra Eka adhyayana.* Utkal

2. Sahoo, Udayanath. *The influence of different shastras on Sarala Mahabharat.* Utkal.

Gujarati

1. Dave, A V. *Short stories of Dhumketu : A critical study.* Saurashtra

Rajasthan

1. Mehta, Gyanwati Bud. *Rajasthani lok natya tatha uska sangeet paksh.* Rajasthan.

Persian

1. Viqar, Ayesha. *Hindustan mein Farsi masnaviyan.* Nagpur.

Tamil

1. Arumugam, S. *A study on T. Janakiraman's short stories.* Madurai.

2. Balasubramanian, P. *Tanul sothida nookalil sarhaka kanippin adippadaigal-Thanipparrai sathaka alangaram.* Madurai.

3. Chinta Nila Devi. *A study of Paripadal.* Madurai.

4. Jeyapandian, C. *Worship of little deities in Madurai City.* Madurai.

5. Kandasamy, V. *A study of Pateswaraswamy Temple, Perur.* Madurai.

6. Krishnamurthy, P. *Imagery in Periyapuram.* Madurai.

7. Krishnasamy, V. *Tamilikulanthappadagal.* Madurai.

8. Kumaraswamy, S. *A critical study of Kalamkakam literature in Tamil.* Madurai.

9. Lokamabal, S. *Yuddhakandam and Sundarakandam in Kamba Ramayana : Their importance as a forum for the revelation of its characters.* Calicut

10. Meyyappan, M. *Devara kalathil samudaya valkkai.* Madurai.

11. Muthu, Rita S. *Thembavani, Seerappuranakkathaigal : A comparative study.* Madurai.

12. Muthulakshmi, S. *A study of village deity worship in and around Palani.* Madurai.

13. Raja, K. *Tholkappiyam elakkiya vagaimai valarchiyum* Madurai.

14. Saradhambal, C. *Classicism in Sangam literature.* Madurai.

15. Sellakani, T. *A comparative study of the ethical values in the Tamil new testament and the books of Pathinenkilkanakku.* Madurai.

16. Sreekumar, S. *Mudiarasan Padippugal Or Attyu.* Madurai.

17. Veliangiri, P. *Thiruppughazhil Uvamaikalum Saiva siddhanthathithin thakkamum.* Osmania

Telugu

1. Sarwamangaleswara Sastry Upadasta Venkata Subramanya Ananta Pantula Ramalinga Swamy 'Gari rachnalu : Samagra pariseelana Andhra

Geography

1. Gholap, Tukaram Naundeo. *Distribution of livestock and fodder supply in Maharashtra.* Shivaji.

History

1. Behar, Ram Kumar. *Bastar ka adivasi sangarsh, 1876 se 1921* Ravishankar.

2. Bhattacharyya, Malaysankar. *Nationalist movement and freedom struggle in some selected areas of Northern Bengal, 1857-1947.* NBU.

3. Jain, Sharad Chandra. *Tumbat (Tumain) ka puratattva.* HS Gour.

4. Mohammad Reazul Hoque. *Muslims of North-West Frontier Bengal and Bengali folk literature.* NBU.

5. Paramathalingam, C. *Social reform movement in Tamil Nadu in the 19th century with special reference to St. Rantalinga* Madurai.

6. Patra, Kartikeswar. *A historical study of the ports of Orissa, from 16th century to 19th century.* Utkal.

7. Pruthi, Kamal Kumar. *Hindi ke itihas ke srot.* HP.

8. Raghbir Singh. *Jodhpur and later Mughals, 1707-1752.* Kurukshetra.

9. Sangwan, Sat Pal. *Science and technology in India under the Company Rule, 1757-1857.* Kurukshetra.

10. Sethuraman, G. *Rameswaram Temple : A historical study.* Madurai.

11. Stephen, S George. *Working of the permanent settlement in Coastal Andhra.* Madurai.

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Note : All the aforesaid qualifications should have been obtained from an Indian University recognised by the Institute or from the National Board of examinations or from any other period recognised by the Institute.

Only those who satisfy the minimum qualifications prescribed are advised to apply for admission. Those who expect to qualify before the date of selection may forward their application by the closing date prescribed. However, they will not be called for the selection test unless evidence of having obtained the necessary qualification is produced latest by 11th Dec. 1987. Candidates are not allowed to apply for more than one programme. Candidates with more than two failures in the University or equivalent examinations are not eligible for admission.

Admission to the programmes will be based on the candidates previous academic record and their performance in the selection tests to be held at the Institute from 18th Dec. till 20th Dec. 1987.

Reservation exists for SC/ST candidates as per rules of the Institute. Suitability for admission (against reserved seats) will be assessed independently of others. In case of non-availability of suitable SC/ST candidates the seats reserved will be diverted to general category.

Those selected will be paid fixed scholarship per month. The value will be Rs. 3100/- (MD/MS degree holders) and Rs. 2575/- for 5 year programme candidates during the first year.

Closing Dates

Last date for issue of forms by Post : 19 Oct. 1987

Last date for receipt of completed form at the Instt (alongwith non-refundable registration fee of Rs. 30/-) : 31 Oct. 1987

The applications received beyond the last dates are liable to be rejected.

The details of qualifications, selection procedure, reservation, sponsorship, scholarship and general conditions will be as given in the Prospectus for the year 1988.

DIRECTOR

CLASSIFIED ADVERTISEMENTS

UNIVERSITY OF ROORKEE ROORKEE

Advt. No. Estt (A)/2/A-87 (Advt.)

Dated : Aug. 22, 1987

Applications on prescribed forms, obtainable from the Registrar, either personally or by sending a self-addressed envelope (9" x 4") affixed with 1.40 paise stamps, are invited for the following posts. Higher starting salary could be offered to candidates based on their qualifications and experience. Applicants should not generally be above the age of 55 years. Candidates in employment are required to send their applications through proper channel. Applications received late, incomplete or without required remittance may not be entertained.

Last Date of receipt of applications on prescribed form alongwith application fee of Rs. 10 - (By Bank Draft or Indian Postal Order in favour of Registrar, University of Roorkee) is **30.9.1987** and for overseas candidates is **30.10.1987**

[Abbreviations used . R-Regular; TLR-Temporary, Likely to be made Regular, T-Temporary]

Sl. No.	Department	Professor (1500-2500)	Reader (1200-1900)	Lecturer (700-1600)
A ENGINEERING DEPARTMENTS				
1. Elect Engg	1R	10R + 1T	4R + 4T	
2 W.R.D.T.C	3TLR	8R + 1T		
3 I.P.T.	2R + 1T	1R	4R	
4 Chemical Engg.	1R	1R	5R+1TLR	
B. SCIENCE DEPARTMENTS				
1. Physics		1TLR	3TLR+1T	
2. Earth Sciences		2R+2T	4R+1T+1TLR	
3. Bio-Sciences		1R		
4 Hum & Social Sc.	1R	3R+1T	1R	

C. OTHER POSTS	10. Assistant Registrar—2R (770-1600)
1. Scientific Officer (Physics) 1T (700-1600)	11. Assit. Accounts Officer—2T (690-1420)
2. Research Associate (Physics) 1T (Rs 1400 consolidated with annual increase 100/- upto a maximum 2000).	12. Asstt. Supdt. Workshop-2R Rs 850-1720 (For Degree Holders) & Rs. 770-1600 (For Diploma Holders)
3. Asstt. Archivist (Archival Cells) 1T (770-1600)	13. Librarian (Central Library) 1R (1540-2200)
4. Coordinator (A.V.R.C.) 1T (1200-1900)	Qualifications for other Posts
5. Producer (A.V.R.C.) 1T (700-1600)	Scientific Officer (Physics)—1T
6. Asstt. Engineer (A.V.R.C.) 1T (850-1700)	Essential : M.E. (In Electronics/Electrical Engg.) or M. Phil. M.Tech.—Instrumentation with one year's practical experience. Or Ph.D. in Experimental Physics with design and fabrication of measuring instruments.
7. Production Asstt. (A.V.R.C.) 1T (850-1700)	
8. Cameraman Grade I (A.V.R.C.) 1T (770-1600)	
9. Cameraman Grade II (A.V.R.C.) 1T (690-1420)	

Desirable : Scientific Officer is required to coordinate the maintenance and development of instrumentation activity of the department, therefore, preference will be given to a candidate having experience of such type of coordination activities.

Research Associate (Physics)—1T

Qualifications : Consistently good academic record with first class atleast at Master's or Bachelor Level, with experience as below :

Grade D—2 Years, Grade C—1 Year, Grade B—1 Year

Specialization : Solid State Physics/ Atomic - Molecular Collision/Atmospheric Physics.

Assistant Archivist (Archival Cells)—1T

Qualifications : M.A. Modern Indian History with Ist division or IIInd division with 50% marks and Diploma in Archival and Historical Research with 5 years experience

Co-ordinator (Audio Visual Research Centre)—1T

Qualifications : Degree of a recognised Institute in Cinema (Direction or developmental communication) with 6 years experience in Direction of Television Film Production.

OR

(a) Doctor's Degree in Science/Technology, (b) Consistently good academic record with at least first class at Master's or Bachelor's level, (c) 5 years experience in research, teaching. Preference will be given to person having some experience in T.V./Film production and allied fields.

Producer (A.V.R.C.)—1T

Qualifications : Degree or Diploma of a recognised Institute in Cinema (Direction or in Developmental Communication) OR Degree atleast second class of a recognised University OR equivalent qualification and 3 years experience of Direction in Television (Film Production).

Assistant Engineer (A.V.R.C.)—1T

Qualifications : B.E. in Electronics/Elect. Engineering or M.Sc. in Physics with Electronics as Specialization.

OR

Diploma in Radio Engineering or Television with 10 years experience in handling/repairing T.V./Audio Visual Equipment.

Production Assistant (A.V.R.C.)—1T

Qualifications : Degree in dramatics OR Diploma in National School of Drama OR equivalent Diploma of a recognised University/Institute or Graduate OR equivalent and atleast 2 years experience of Programme Production Asstt. in Films/T.V. theatre or Radio OR Degree in any discipline with atleast second class of a recognised University and two years experience of educational Research Evaluation Production of A.V.M.

Cameraman Grade I (A.V.R.C.)—1T

Essential : Diploma or Degree in Cinematography from recognised Institute.

Desirable : 3 years experience in Motion Picture/T.V. (Video) Photography. (The experience requirement is relaxable under exceptional cases).

Cameraman Grade II (A.V.R.C.)—1T

Qualifications : Diploma or Degree in Cinematography from a recognised Institute.

OR

Degree in Mass Communication from a recognised Institute, University.

OR

Three years Diploma in Electronics, T.V./Electrical with 7 years experience.

Assistant Registrar—2R

Essential

(i) A good Bachelor's degree in any field of Arts, Science, Commerce or Engineering.

(ii) Not less than 5 years administrative/Academic experience.

(iii) A good knowledge of Hindi and English.

Desirable

- (i) A Master's degree or a degree in Law or in Business administration.
- (ii) Experience in University administration/examination work.

Note

(i) For Asstt. Registrar (Admn.), Administrative experience.

(ii) For Asstt. Registrar (Exam), Examination experience should be mentioned as the case may be.

Assistant Accounts Officer—2T

Essential : (a) Second class graduate with 8 year's experience of Audit & Accounts work in Government Deptt. or Autonomous body.

(b) Good knowledge of Hindi.

Preferential : Diploma of Institute of Chartered Accountants of India or passed S.A.S examination conducted by the Controller & Auditor General of India.

Assistant Supdt. Workshop (University Workshop)—2R

Qualifications : A Master's degree in Mechanical Production, Industrial Engineering with atleast one year shop floor experience OR a Bachelor's Degree or equivalent in Mechanical Production Industrial Engineering with 5 years experience, out of which atleast 2 years should be shop floor experience and minimum of 2 years teaching experience of subjects related to workshop Technology at University level.

OR

Three years Diploma or equivalent in Mechanical Production Engineering with a minimum of 8 years of experience, out of which atleast 4 years be shop floor experience.

Desirable : Administrative experience of Engineering Workshop.

Librarian (Central Library)—1R

Qualifications : M.Lib.Sc. with atleast 5 years experience of Library.

NOTE

1. For Science & Engineering Departments U.G.C. prescribed qualifications are applicable. These qual-

ifications will not apply to deputationists whose suitability for the posts will be judged on the basis of experience and accomplishments. Other details along-with specialization etc. will be supplied alongwith application form.

2. Number and nature of posts shown above may change at the time of selection

3. Only Indian Nationals need apply

REGISTRAR

**NATIONAL INSTITUTE OF HYDROLOGY
JAL VIGYAN BHAWAN
ROORKEE**

Advertisement No. 6/87-NIH

Dated : September 1, 1987

Applications are invited for the following posts in National Institute of Hydrology (A Govt of India Society) Roorkee from Indian Nationals Satisfying qualifications and experience laid down therefor :

I. Scientist 'E' : Posts in the area of : Surface Water Hydrology —2 Posts Water Resources System —1 Post Drought Management Studies —1 Post

Scale of Pay : Rs. 3700-125-4700-150-5000 Total emoluments at the initial of the scale is Rs 3980 - excluding H.R.A

Age : Below 45 years

Qualifications : 1. High Academic qualifications in Civil Engineering with specialisation in Hydrology or Water Resources, or equivalent.

2. Ph.D Degrees desirable

3. Experience in Field Problems, Corporate membership in professional Institutions desirable.

4. About 7 years experience in teaching, research, design or planning

5. Proven ability of conducting and guiding research.

2. Scientist 'C' : 4 posts in the following areas : Water Resources System/Surface Water Hydrology/Drought Studies. — 4 Posts

Scale of Pay : Rs. 3000-100-3500-125-4500. Total emoluments at the initial of the scale is Rs. 3240/- excluding H.R.A.

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UNIVERSITY NEWS, MONDAY, SEPTEMBER 21, 1987

Age : Below 40 years.

Qualifications : I—A Bachelor's Degree in Civil Engineering with minimum of 60% marks or 7.0/10.0 CPI or equivalent.

OR

Master's degree with specialisation in Water Resources/Hydraulic Engineering/Hydrology, with minimum of 60% marks or 7.0/10.0 CPI equivalent.

II—5 years experience of Design, Teaching, research in Institutions dealing with Water Resources area.

Desirable : Ph.D. in Science/Engineering.

Note : Selected persons for Scientist 'E' and 'C' can be appointed on deputation basis also.

The above mentioned posts carry usual allowances as admissible under the Central Government Rules. Age will be relaxable for persons already in Service in the Institute and other Govt / Semi-Govt Autonomous organisations as well as candidates belonging to SC/ST community, retrenched employees of Defence Services and physically handicapped persons, as per rules of the Govt. of India.

Age will be determined as on 30.10.1987.

Persons already employed in Govt. Semi-Govt Autonomous bodies should apply through proper channel. Application not forwarded through proper channel may not be considered.

Candidates applying for more than one post should use separate application form for each post and remit fees separately for each post.

Application forms may be obtained by 15.10.1987 from the Chief Administrative Officer, National Institute of Hydrology, Jal Vigyan Bhawan, University of Roorkee Campus, Roorkee-247667 (UP). Application forms duly completed in duplicate with copies of all testimonials alongwith an application fee in the form of Indian Postal Orders of Rs.8/- (SC/ST candidates are exempted from payment of fee) payable to the National Institute of Hydrology at the Roorkee University Post Office should reach the Chief Administrative Officer, National Institute of Hydrology, Jal Vigyan Bhawan, University of Roorkee Campus, Roorkee-247667 (UP) on or before 30.10.1987.

Job Location : Anywhere in India.

GOA UNIVERSITY

Applications are invited for the following posts in the prescribed form (10 copies) together with zerox copies of certificates and an application fee of Rs. 10.00 (Rs. 5.00 for candidates belonging to SC/ST) so as to reach the Registrar, Goa University, P.O. Santa Cruz, Goa—403 005 on or before 30th October, 1987 from inland candidates and before 16th November, 1987 from candidates abroad. Prescribed forms of application can be had in person free of charge from the Registrar's office, or on payment of Rs. 10.00 by crossed D.D. drawn in favour of the Registrar on the State Bank of India, Bambolim, Goa, if required by post.

Sr. No.	Name of the Post	No. of Posts
1.	Professor of Computer Science & Technology	1
2.	Professor of Commerce	1
3.	Professor of Business Administration	1
4.	Reader in Economics	1 \$ ST
5.	Reader in Microbiology	1
6.	Reader in Geology	1
7.	Reader in Marine Science	1 \$ ST
8.	Reader in Computer Science & Technology	1
9.	Reader in Commerce	1
10.	Reader in Business Administration	1
11.	Lecturer in English	1
12.	Lecturer in History	1
13.	Lecturer in Economics	1
14.	Lecturer in Political Science	1
15.	Lecturer in Chemistry (one each in Organic, Inorganic and Physical Chemistry)	3 * SC
16.	Lecturer in Microbiology	2
17.	Lecturer in Geology	2
18.	Lecturer in Computer Science & Technology	1
19.	Lecturer in Commerce	1
20.	Lecturer in Business Administration	2

2. The minimum qualifications and the scales of pay will be as prescribed by the University Grants Commission from time to time. The posts also carry allowances as admissible to the State Government employees. A higher starting pay may be considered for exceptionally qualified person.

* Reserved for Schedule Caste.

\$ Reserved for Scheduled Tribe

It may be noted that if the suitable candidates under reserved category are not available the posts would be filled by candidates from general category.

**Dr. S.K. Gandhe
REGISTRAR**

INDIAN INSTITUTE OF GEOMAGNETISM

COLABA, BOMBAY—400 005
Advt. No. 5/87

(An autonomous Institute under the Ministry of Science and Technology—DST—Government of India)

Invites applications from Indian Nationals for the following temporary posts under the DST's Research Project titled 'Marine Geoelectromagnetic Studies of Deep Sea Fans of Bay of Bengal'.

1. Scientist (Reader)—1 post
(Scale : Rs. 3000-4500 revised).

Qualification

Essential : (i) A good Master's degree (preferably Ph.D.) in Physics, Applied Physics, Geophysics, Radio Physics or Applied Mathematics of a recognised University

(ii) Five years research experience as evidenced by published papers in geomagnetism and related fields.

Desirable experience in :

- (a) Electrical and Electromagnetic studies of the Earth's interior.
- (b) Design and development of instruments for above studies.
- (c) Numerical methods and computer programming.
- (d) Marine magnetic surveys.

2. Senior Scientific Assistant Senior Technical Assistant—2 posts (Scale Rs 1640-2900 revised).

Qualification

Essential : Master's degree in Physics, Applied Physics, Geophysics (Geomagnetism), Radio Physics, Geology or Applied Mathematics of a recognised University

OR

B Tech or B.E. in electronics or computer science or instrumentation from a recognised University or Indian Institute of Technology.

Desirable : Knowledge and experience in one or more of the following

- (a) Computer Programming
- (b) Statistics and Numerical analysis
- (c) Electronics
- (d) Geomagnetism and related fields
- (e) Marine magnetic surveys

Note : (i) Meritorious candidates who show commitment to science during duration of the projects are likely to be considered for regular section.

(ii) If proper candidates are not available for the advertised posts, the vacancies will be filled up by making offers in the next suitable scale.

(iii) Qualifications are relaxable for otherwise suitable persons.

(iv) The work will involve participation in oceanic crises.

(v) The posts carry usual allowances permissible to Central Government employees posted in Bombay.

Prescribed applications form can be had by post from ADMINISTRATIVE OFFICER, INDIAN INSTITUTE OF GEOMAGNETISM, DR. NANABHAI MOOS MARG, COLABA, BOMBAY 400 005 by sending a self-addressed and stamped (Re. 1.00) envelope of 10 cm x 25 cm size. Completed applications should be sent in a cover super-scribed with application for the post of . . . so as to reach the Administrative Officer within 30 days of the publication of this advertisement.

INDIAN COUNCIL OF MEDICAL RESEARCH

Applications are invited for the post of Project Officer for Co-ordinating Unit of National Cancer Registry Projects (Technical Wing) at Tata Memorial Centre, Bombay.

Job Requirements

- (a) He/She will be the technical in-charge for the National Cancer Registry Projects of the ICMR.
- (b) He/She will guide the registries in conducting any studies related to working of cancer registries as well as epidemiological and intervention studies.
- (c) He/She will review the progress of each registry periodically and prepare the necessary reports

Qualifications & Experience Essential

(i) (a) MBBS or M.Sc. of a recogni-
sed University, and

(b) M.D. Ph.D D.Sc., in Medicine/
Pathology/Microbiology/Epidemiology/
Oncology/Biostatistics or related disciplines
or equivalent postgraduate qualifi-
cations.

(ii) Research experience of 15 years with original work to the credit of candidate in epidemiology related to oncology.

(iii) Administrative experience in a responsible capacity.

(iv) Knowledge and experience in the operation of cancer registry.

Salary, Conditions of Service

The scale of pay attached to the post is Rs. 2000-125/2-2500 (pre-revised) plus allowances as per Central Government Rules.

Private practice is not allowed. However, non-practising allowance is admissible to medical graduates only as per rules of the Council.

Age

Below 50 years SC/ST candidates are allowed relaxation in accordance with Government of India rules

Candidates called for interview will be paid Ist Class rail fare. Only conces-
sional rail fare, if available, will be allowed. No TA/DA is admissible for joining the post or on termination of appointment.

Applicants from Central/State Govt.
Departments Public Sector Undertakings and Government funded Research Bodies must be forwarded through proper channel.

Applications can be obtained from the Office of the Director-General, Indian Council of Medical Research, Post Box No. 4508, Ansari Nagar, New Delhi-110029, upto 16th Oct., 1987 forms duly completed should be sent to the Director General, Indian Council of Medical Research, Post Box No. 4508 Ansari Nagar, New Delhi, with a crossed Indian Postal Order for Rs. 8 - payable to the Director-General, ICMR, New Delhi. SC ST candidates are exempted from this payment. Forms duly completed should reach the ICMR Office on or before 28th Oct., 1987

Applications which are incomplete or received after the closing date will be summarily rejected. Canvassing in any form will be a disqualification

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

P.O. IIT, POWAI, BOMBAY-400076

Advertisement No. C-146/87

Applications on plain paper are invited for the following posts from the citizens of India. Persons employed in Government/Semi-Government Organisations or Educational Institutions must apply through proper channel. Candidates should apply in the prescribed application form which will be sent on request accompanied by a self-addressed envelope (23 cm. x 10 cm.) upto 20th October, 1987.

Completed application together with requisite copies of certificates, testimonials and Postal Order for Rs. 7.50 as an application fee should be sent to the Registrar on or before 31st October, 1987. No application fee need be sent by the SC/ST candidates.

Outstation candidates called for interview will be paid single first class (Non A.C.) railway fare from the place of their residence to Bombay and back by the shortest route.

Scale of Pay : (Scales are likely to be revised in near future).

Post No. 1 : Rs 1200-50-1300-60-1900.
(Total emoluments on the minimum of the scale : Rs. 3075/- approx.).

Post No. 2 . Rs. 700-40-1100-50-1600
(Total emoluments on the minimum of the scale : Rs. 2124,- approx.)

1. Deputy Registrar (Academic) (1 post)

Job Description

The Deputy Registrar (Academic) works under the control of the Dean of Academic Programmes and the Registrar. He is responsible for all matters concerning the planning and organisation of examinations, the maintenance of students academic records, award of scholarship, maintenance of Senate records and implementation of Senate decisions organisation of the annual Convocation etc. The job requires familiarity with academic rules and regulations.

Qualifications

(i) A good Bachelor's degree in Arts, Science, Commerce, Engineering or Technology of a recognised University.

(ii) A post-graduate degree or Diploma in any of the above fields or in Public Administration/Management of a recognised Institute/University or its equivalent, or recognised qualifications as Chartered/Cost/SAS Accountant.

Experience

A minimum of 10 years of relevant administrative experience preferably in a Government, Educational or Research Institute or in a Commercial Organisation of a national standing. Out of this, atleast 5 years should be in a responsible position. The candidates would be expected to have some familiarity with

academic activities and working procedure in higher educational institutions. In case of necessity, the incumbent may be required to hold additional or exclusive charge of any other area.

Desirable

(i) Teaching and Research experience or experience of life on a residential educational campus.

(ii) Experience of computer systems for information processing and retrieval

In case of candidates with exceptional qualification the duration of experience may be relaxed suitably.

2. Public Health Officer (1 post)

Job Description

The Public Health Officer would be overall Incharge of all matters pertaining to Campus Sanitation and environment. This includes sewerage and drainage, effective solid waste collection, maintenance of water quality control of mosquitoes, etc.

Qualifications & Experience

(a) M.B.B.S. with Diploma in Public Health,

OR

(b) M. Tech. in Environmental Engineering.

OR

(c) Bachelor's degree in Civil or Sanitary or Public Health Engineering.

OR

(d) Post-graduate degree in Arts, Science, Commerce.

Candidates under (a) and (b) must have a minimum of 3 years of relevant experience in Public Health/Sanitation. Candidates under (c) and (d) must have a minimum of 5 years of relevant experience in Public Health/Sanitation.

Candidate with a Bachelor's degree in Arts, Science, Commerce or Diploma in Civil Engineering or equivalent with a minimum of 8 years of relevant experience may also be considered for appointment in the scale of Rs. 700-1300.

RAGISTRAR

ASSOCIATION OF INDIAN UNIVERSITIES

AIU HOUSE, 16 KOTLA MARG, NEW DELHI-110002

Applications from Indian citizens are invited for the following posts in the prescribed form available on payment of Rs. 2 - from the Office of the Association :

Deputy Secretary · Pay Scale Rs. 3700-5000 (Revised)

Postgraduate with first class or high second class degree with at least ten years experience in an administrative or academic post in University/Government Department/Autonomous Organisation. Knowledge of administrative rules and understanding of issues in university system desirable. Persons with experience of working in Universities/Colleges will be preferred and can be considered for deputation terms.

Senior Cultural Officer : Pay Scale Rs 3000-4500 (Revised)

Master's degree from a recognised Institution/University. Five years experience with a minimum of two years in youth organising cultural activities at universities/colleges/other organisations. Incumbent will be responsible for administration of cultural activities at Inter-University/National/International levels. Deputationists from University/Colleges will be preferred.

The posts carry Dearness and other allowances generally at the Central Government rates. Total emoluments at the initial basic pay of Rs. 3700 and Rs. 3000 amount to Rs. 5435 and Rs 4390 respectively including HRA and Special Allowance. Relaxation in any of the requirements may be made in exceptional cases. The Association reserves the right not to fill up the vacancy advertised, if the circumstances so warrant. SC/ST/Ex-servicemen will be given preference. Canvassing in any form by or on behalf of a candidate will be a disqualification.

Applications complete in all respects should reach the Office by September 30, 1987. Persons already in service should apply through proper channel. Applications received after the last date or without complete information may not be entertained.

VIKRAM UNIVERSITY, UJJAIN

Advt. No. Dev/JRF/87-88/2605

Dated : 18/8/1987

Notification

Application on plain paper, containing the information like Name, Postal Address, Date of Birth, Qualification, NET Roll Number and Year & Subject, are invited upto 29-9-1987 for the award of U.G.C. Junior Research Fellowship in Sciences, Humanities (including Social Sciences), Education, Commerce and Law under 'AT ANY ONE GIVEN TIME BASIS' from the successful candidates of National Educational Testing conducted by the University Grants Commission who possess the following qualifications to fill-up 39 (Thirty nine) vacancies of JRFs. The candidates should enclose certified copies of their documents alongwith the application

Qualifications - High Second Class Master's degree with a second class Bachelor's degree or atleast a Second Class Master's degree with a First Class—Bachelor's degree. The candidate should be below the age of 30 years (40 years in the case of women candidate). Selected candidates will have to register their names for M.Phil./Ph.D. of this University as per rules. Candidates belonging to SC/ST and Physically handicapped category will have to submit relevant certificates. The selected candidates will be paid fellowship of

Rs. 1,000/- p m. plus contingency as per UGC rules.

No T.A. & D.A. will be paid for attending the interview. Incomplete or applications received after the last date will summarily be rejected.

G.S. Gautam
REGISTRAR

ANNA UNIVERSITY

MADRAS 600 025

Advertisement No. 20620/L3/87

Dated : 29.9.1987

Applications in the prescribed form are invited for the following posts in this University. Application form, details of prescribed qualifications and other particulars can be had from the Registrar, Anna University, Madras-25, on application, accompanied by a crossed Indian Postal Order for Rs 5/- (Rupees five only) dated not earlier than 30.8.87 drawn in favour of the Registrar, together with a stamped self-addressed envelope (Rs 2.00) of size 22 x 10 cms

Details of Posts

1. Professor — 3 (Three)
(Aeronautical Engineering-1,
Management-2) (Scale of Pay :

Rs. 1500-60-1800-100-2000- 125/
2-2500)

2. Assistant Professors — 8 (Eight)
(Aeronautical Engineering-1,
Automobile Engineering-1,
Central Workshop-1, Computer
Science-2, Management - 3)
(Scale of Pay : Rs. 1200-50-
1300-60-1900)

3. Lecturers — 7 (Seven)
(Automobile Engineering-1,
Computer Science-1, Master of
Computer Applications-2,
Management-3) (Scale of Pay :
Rs. 700-40-1100-50-1600)

In addition, D.A., H.R.A. and
C.C.A. are admissible at the rates
in force from time to time

Request for application forms,
details of qualifications/field of
specialisation prescribed and other
particulars will be entertained upto
30.9.1987

Last date for receipt of completed
application is 4.10.87.

Note : Pay scales to the above
posts are likely to be revised in
due course, based on U.G.C.'s
recommendations.

REGISTRAR

UNIVERSITY OF POONA

GANESHKHIND, PUNE-411007

Advertisement No. 40 of 1987

REQUIRES

S. No.	Department	Specialisation
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PROFESSORS (10)

1	Physics	1 Energy Studies (State Bank Chair) (Temporary)
2.	-do-	1 Material Science/Laser & Laser's System/Space & upper atmosphere/Theoretical Physics
3.	Botany	1 Molecular Biology
4.	Microbiology	1 Industrial Microbiology/En- vironmental Microbiology/ Microbial Genetics
5.	Biotechnology	*1 Biochemical Engineering
6.	Geology	1 Metamorphic Petrology and Structural Geology (Temporary)

7. Electronic Science

1 Microprocessor/Digital Sig-
nal Processing/Semiconduc-
tor Technology

8 English

*1 Literature & Literary Crit-
icism

9. Centre of Advanced
Study in Sanskrit **1

10. Politics 1

Grade : Rs 1500-2500

Age Limit : 50 years.

Minimum Qualifications

Eminent scholar with published work of high quality in the subject. Actively engaged in research. About ten years' teaching and/or research experience. Experience of guiding research at doctoral level.

OR

Outstanding scholar with established reputation, having made significant contribution to knowledge.

READERS (19)

11.	Chemistry	1 Biochemistry
12.	-do-	*1 Organic Chemistry

S.No.	Department	Specialisation	Sr. No.	Department	Specialisation			
13.	Physics	*1	30.	Physics	LECTURERS (17)			
14.	-do-	1	31.	Mathematics	**1			
15.	Mathematics	1 Number Theory/Graph Theory / Combinatorics/Lattice Theory/Commutative Algebra ; Geometry / Functional Analysis / Topology/ Numerical Analysis	32.	Mathematics	1 Applied Mathematics/Transform Analysis/Operations Research, Numerical Analysis, Computer Programming/Differential Equations.			
16.	Statistics	*1 Probability / Stochastic Processes/Statistical Inference Operations Research , Biostatistics	33.	Geography	*1 Analysis/Graph Theory/ Combinatorics / Algebra/ Number Theory/Geometry/ Topology/			
17.	Biotechnology	**1 Cell Engineering	34.	Statistics	**1 Climatology			
18.	Zoology	**1 Experimental insects behaviour/Insect Electrophysiology	35.	Geology	*1 Statistical Inference or Probability Theory.			
19.	Geology	**1 Sedimentology or Ground Water Geology or Remote Sensing or Palaeontology or Geomorphology or Economic Geology	36.	Zoology	1 Economic Geology & Mineralogy (Temporary)			
20.	Electronic Science	1 Microprocessor applications and/or Semiconductor Physics	37.	Zoology	*1 Entomology			
21.	Computer Science	*1	38.	English	1 Molecular Biology (Biochemistry background)			
22.	-do-	1 (Temporary)	39.	Hindi	Literature			
23.	Hindi	1 Modern Prose Modern Poetry, Modern Criticism	40.	Hindi	1 Drama and Dramatology (Temporary)			
24.	Modern European Languages	**1 German	41.	Modern European Languages	1 Medieval Poetry			
25.	Defence Studies	1	42.	Politics	**1 French			
26.	Communication and	1 Reporting, Sub-editing, Feature writing and magazine Journalism, Communication Research.	43.	History	*1			
27.	Sociology	*1 Sociology of Formal Organisations, Industrial Sociology/ Sociology of Deviance/Sociology of Religion	44.	Psychology	1 Maratha History/Deccan History			
28.	Programme of Continuing Education/Adult Education/Extension Work	1 (Temporary) (Asstt. Director) for Adult Education	45.	Programme of Continuing Education/ Adult Education/ Extension Work	**1 (Temporary) (Project Officer) for Adult Education			
29.	Programme of Continuing Education/Audit Education/Extension Work	1 (Temporary) (Asstt. Director) for Population Education Resource Centre	46.	-do-	1 (Temporary) (Project Officer) for Population Education Resource Centre			
Grade : Rs 1200—1900		Age limit : 45 years	Grade : Rs 700—1600					
Minimum Qualifications								
Good academic record with doctoral degree or equivalent published work. Actively engaged in research or innovation in teaching methods or production of teaching materials. About five years' teaching and/or research experience with minimum three years as Lecturer or equivalent position.								
Minimum Qualifications for Lecturer in French								
(a) A Doctor's degree or research work of an equally high standard; and								
(b) Good academic record with at least Second Class (C in the seven point scale) Master's degree in French.								
For developing Interdisciplinary Programmes, degrees in (a) and (b) above in relevant subjects.								

(b) Good academic record with at least Second Class (C in the seven point scale) Master's degree from an Indian University or an equivalent degree from a foreign University.

Having regard to the need for developing interdisciplinary programmes, the degrees in (a) and (b) above may be in relevant subjects.

Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of very high standard, it may relax any of qualifications prescribed in (b) above.

Provided further that if a candidate possessing a Doctor's degree or equivalent research work is not available or is not considered suitable, a person possessing a good academic record may be appointed provided he has done one year post-M.A. diploma course in the teaching of French language from a University on the condition that he will have to obtain a Doctor's degree or give evidence of research work of equivalent high standard within eight years from his appointment, failing which he will not be able to earn future increments until he fulfils these requirements

Minimum Qualifications for Lecturer in English

(a) A Doctor's degree or research work of an equally high standard; and

(b) Good academic record with at least second class (C in the seven point scale) Master's degree in a relevant subject from an Indian University or an equivalent degree from a foreign university.

Having regard to the need for developing interdisciplinary programmes, the degrees in (a) and (b) above may be in relevant subjects.

Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of a very high standard, it may relax any of qualifications prescribed in (b) above.

Provided further that if a candidate possessing a Doctor's degree or equivalent research work is not available or is not considered suitable, a person possessing a good academic record (weightage being given to M. Phil. or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years on the condition that he will have to obtain a Doctorate's degree or give evidence of research work of equivalent high standard within eight years of his appointment, failing which he will not be able to earn future increments until he fulfils these requirements.

The posts marked with (*) are reserved for candidates belonging to S.C./S.T./D.T.N.T. However, if such a candidate is not found available/suitable, for a particular post, the suitable candidate from open category may be appointed on purely temporary basis, for a maximum period upto the end of current academic year. The posts marked with (**) are reserved only for the candidates belonging to S.C./S.T./D.T.N.T.

Candidates are required to send the application in the prescribed form in eight copies so as to reach the University Office on or before 7th October 1987. Applications should be sent separately for each post. A set containing eight application forms and accompaniment giving more details of qualifications, experience, etc. for the above posts are available in person for Rs. 10/- in cash or by sending self-addressed envelope (23 cms x 20 cms) stamped for Rs. 4.00 and Postal Order of Rs. 10/- to the Registrar, separately for each post.

V.G. Jagdale
REGISTRAR

INDIAN INSTITUTE OF SCIENCE

BANGALORE 560 012

Requires

Scientific Officer in the Centre for Electronics Design Technology.

Qualifications and Experience :

Essential : ME/MTech in Electronics/Computer Engineering/Electrical Engineering with specialisation in the area of microcomputer systems or its equivalent degree.

Good working familiarity with atleast two of the popular microprocessors both at hardware and software level.

Desirable . Knowledge of real time operating systems for industrial applications. Experience in total electronic product development.

Emoluments : Rs. 2,124-00 p.m. (Approx) in the grade Rs 700-1300. Grade is likely to have upward revision when IV Pay Commission recommendation becomes effective.

Details and prescribed application forms can be obtained on request accompanied by a crossed postal order for Rs. 5/- (free of cost to SC/ST on production of Caste certificate from a competent authority) drawn in favour of Registrar, Indian Institute of Science alongwith a self-addressed stamped (Rs 5-40) envelope of the size 28 x 18 cms. on or before 5th October, 1987.

R (IA) 308-37/87

REGISTRAR

ASSAM AGRICULTURAL UNIVERSITY

JORHAT-13

No. AAU/R/Exam-47-(a) (v)/87-88/2077-2197

Dated : 27.8.1987.

ADMISSION NOTICE NO. I/1987

Applications in prescribed form are invited for admission into the following degree programmes in the different Colleges of the Assam Agricultural University for the Academic Session 1987-88.

(a) B Sc (Agri) of 4 years duration	— (i) College of Agriculture, Assam Agricultural University Jorhat-785 013.
(b) B V Sc. & A.H of 4½ years duration (including six months' internship)	— (ii) B N College of Agriculture, Biswanath Chariali (Male candidates only).
(c) B Sc. (Home-Science) of 3 years duration	— (i) College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati.
(d) B Sc (Forestry) of 4 years duration	— (ii) College of Veterinary Science, North Lakhimpur (Male candidates only).
(e) B F Sc of 4 years duration	— College of Home-Science, Assam Agricultural University, Jorhat-785 013 (Female candidates only).
	— B N College of Agriculture, Biswanath Chariali (Male candidates only)
	— College of Fisheries, Raha, Nagaon (Male candidates only)

1. Minimum Qualification for Admission

(A) B.Sc (Agri), B.Sc (Forestry) & B.F.Sc. Degree Programme

(i) A candidate must have passed the 10+2 examination in science group or equivalent examination(s) with physics, chemistry and biology (or botany and zoology in place of biology) of a recognised University or Board or Secondary Education Council
(ii) A Candidate must have secured minimum 50% marks (45% for SC/ST candidates) in aggregate in the qualifying examination(s)
(iii) A candidate should not be more than 21 years of age on the last date of submission of application
Candidates working as VLEWs or equivalent in the State of Assam shall also be eligible for admission to the B.Sc (Agri) degree programme. The entrance qualifications for admission of such VLEW candidates shall be :
(a) passed at least Higher Secondary/PU PD examination in science group with physics, chemistry and biology (or botany and zoology in place of biology)
(b) maximum age should not exceed 35 (thirty five) years on the last date fixed for receipt of application
(c) should possess at least 3 (three) years practical field experience
(d) must be sponsored by the Director of Agriculture, Assam
Desirable : Gram Sevak Training passed from any of the Gram Sevak Training Institute of Assam

B.V.Sc & A.H Degree Programme

(i) The requirements are as prescribed under 1 (A) (i), (ii) & (iii) above
Candidates working as VFAs or equivalent under the State Govt of Assam shall also be eligible for admission to the B.V.Sc. & A.H. degree programme subject to fulfilment of the following requirements :
(a) passed at least Higher Secondary/PU PD examinations in science group with physics, chemistry and biology (or botany and zoology in place of biology) with 45% marks in aggregate
(b) maximum age limit should not exceed 35 (thirty five) years on the last date fixed for receipt of application
(c) should possess at least 3 (three) years practical field experience
(d) must be sponsored by the Director of Animal Husbandry & Veterinary, Govt of Assam
Desirable : VFA training passed from the VFA training Institute of Assam.

(C) B.Sc (Home Science) Degree Programme

(i) A candidate must have passed the 10+2 examination in science group or equivalent examination(s) with physics, chemistry and biology (or botany and zoology in place of biology) of a recognised University or Board or Secondary Education Council.
(ii) Candidate must have secured at least 40% marks (pass 10+2 for SC/ST candidates) in aggregate in the qualifying examination(s).
(iii) A candidate should not be more than 21 years of age on the last date of submission of application.

Note

Candidates passing in supplementary or compartmental examinations under (A), (B) & (C) above shall not be eligible for admission.

2. Specialised Course in Tea Husbandry & Technology

In the B.Sc (Agri) degree programme, 20 seats are earmarked for specialised course in Tea Husbandry & Technology, out of which 7 seats are reserved for candidates sponsored by the tea-growing States/Union Territories of India (other than Assam) or nominees of the ICAR.

3. Reservation of Seats

Reservation of seats for certain categories of candidates besides those of SC/ST/OBC & MOBC will be made in accordance with the principles laid down by the University authority. Candidates against the reserved seats should submit necessary certificates in support of their claim, issued by each of the concerning Registered Organisations, viz., All Assam Tribal Sangha, Assam Scheduled Caste Development Council (Assam Anususita Jati Unnyan Parishad, All Assam Other Backward Classes' Associations either at the State or District level, in the prescribed forms and duly countersigned by the Deputy Commissioner Sub-Divisional Officer of the District/Sub-Division.

4. How to Apply

Application forms for admission into different degree programmes are obtainable either personally or by sending self addressed stamped (Rs. 2.00) envelope of size 10 x 23 cm. and on payment of Rs. 3.00 (Rupees three) only in the form of Crossed IPO/Bank payable to .

1. The Dean, Faculty of Agriculture, Assam Agricultural University, Jorhat-13 for B.Sc. (Agri) & B.Sc. (Forestry) Programme.
2. The Dean, Faculty of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22 for B.V.Sc. & A.H. Programme.
3. The Dean, Faculty of Home Science, Assam Agricultural University, Jorhat-13 for B.Sc. (Home Science) Programme.
4. OSD, College of Fisheries, Raha, Nagaon for B.F.Sc. Programme.

In addition to above, limited no. of application forms for all programmes are also available on payment of necessary fees from Jorhat and Khanapara Campus of the University

VLEW candidates are to apply through the Director of Agriculture, Govt. of Assam

VFA candidates are to apply through the Director of Animal Husbandry & Veterinary, Govt. of Assam

Candidates from Nagaland, Manipur, Arunachal Pradesh, Mizoram, Meghalaya and Tripura who are Govt. nominees should submit their applications through respective Govts. and their Govts. should channelise such applications through the North Eastern Council, Shillong to the respective Deans of the concerned faculties of the University where the admission is sought

Applications complete in all respects must be sent to :

- (i) The Dean, Faculty of Agriculture, Assam Agricultural University, Jorhat-785 013 for admission into the B.Sc. (Agri) and B.Sc. (Forestry) degree programme.
- (ii) The Dean, Faculty of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-781 022 for admission into the B.V.Sc & A.H. degree programme
- (iii) The Dean, Faculty of Home Science, Assam Agricultural University, Jorhat-785 013 for admission into the B.Sc. (Home Science) degree programme; and
- (iv) The O.S.D., College of Fisheries, Raha-782103, Nagaon for admission into B.F.Sc. degree programme.

So as to reach them positively on or before 10th Oct. '87.

J N. Talukdar
REGISTRAR

SRI KRISHNADEVARAYA UNIVERSITY ANANTAPUR

Achievements and Plans

Sri Krishnadevaraya University which came into being on 27-7-1981 has a long tradition of teaching and research work dating back to 1968, when it first began as P.G. Centre of S.V. University with 5 departments became an autonomous Post-Graduate Centre in the year 1976. Over these years, the nucleus of 5 departments has extended into a structure of 22 departments.

The University offers courses leading to M.A. in English, Telugu, Economics, History, Sociology, Rural Development and Political Science; M.Sc. in Mathematics, Physics, Chemistry, Statistics, Polymer Sciences, Botany, Zoology, Bio-Chemistry, Microbiology and Geography; M.Com., M.B.A., M.L., B.L.I.Sc., B.G.L/B.L. In addition, P.G. Diploma in Instrumentation, Diploma in Labour Law and Taxation, Certificate Courses in Tamil, Kannada and Sanskrit are also being offered. The University proposes to start P.G. Courses in Instrumentation, Diploma in Computer applications to meet the demands of Scientific and technical challenges and opportunities in the coming years.

Building Programme

The University has recently acquired about 250 acres of land and the University has 500 acres campus for educational institutions and residential quarters.

During VI Plan period, the University, with liberal financial assistance from the University Grants Commission and State Government, could complete one Science Block, one Hostel for boys and one for girl students, Indoor Gymnasium, N.R.S.C building, Guest-house-cum-Faculty Club, Green House for Bio-Sciences Department and Health Centre in a record time of one year. The work for construction of 24 Staff quarters are under active progress. The U.G.C. has also approved proposals of the University under VII Plan period, the plans and estimates for the following programme have since been approved.

1. Construction of Academic Building for M.B.A. Programme	Rs. 20.00 lakhs
2. Construction of Hostel for 60 students under M.B.A. Programme	Rs. 17.00 lakhs
3. Construction of 14 Nos. of Staff quarters under M.B.A. Programme	Rs 20.35 lakhs
4. Construction of 21 Nos Staff quarters outside Plan allocation	Rs. 20.00 lakhs

In addition, the U.G.C. has considered the University's proposals on Adult Education Programme, Museum and Archives.

All India Board of Management Studies has approved our M.B.A. course. This is a boon to the University and with the liberal assistance of U.G.C. to strengthen the M.B.A. programme by granting additional staff, Library, Equipment, academic and Hostel buildings for students and quarters for Staff. This will enable the University to establish Institute for Management and Development Studies.

Training and Research Programme

The research activities in various departments by the staff and research scholars are progressing with usual stiffness. Almost all departments are working on Research Projects sponsored by U.G.C., C.S.I.R., I.C.M.R., I.C.S.S.R. and other organisations. About 300 research scholars in various disciplines are carrying on research leading to M. Phil and Ph. D. courses.

Affiliation

The University Act has been suitably amended to affiliate all Colleges located in two districts of Anantapur and Kurnool from the academic year 1987-88. With this, the University attained its status of fulfledged affiliating University.

Future Plans

With the establishment of a Computer Centre the University proposes to start D.C.A. courses with the financial assistance of U.G.C. and State Government. It is also proposed to start P.G. Courses in Instrumentation shortly.